Release 3.0.5AA John F. Collins, Biocomputing Research Unit.

MPsrch_nn n.a. - n.a. database search, using Smith-Waterman algorithm

Run on: Wed May 6 23:24:34 1998; MasPar time 118.86 Seconds
928.571 Million cell updates/sec

Tabular output not generated.

Title: >US-08-320-157-6
Description: (1-2094) from US08320157.seq
Perfect Score: 2094
N.A. Sequence: 1 GAGGATCTACAGGGGACAAG.....CAAAAAAAAAACGGAGATCC 2094
Comp: CTCCTAGATGTCCCCTGTTC.....GTTTTTTTTTTGCCTCTAGG

Scoring table: TABLE default
Gap 6

Nmatch STD : Dbase 0; Query 0

Searched: 102136 seqs, 26354296 bases x 2

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database: n-issued
1:back1 2:51 3:52 4:53 5:54 6:55 7:56 8:57 9:PCT90
10:PCT91 11:PCT92 12:PCT93 13:PCT94 14:PCT95 15:PCT96

Statistics: Mean 9.226; Variance 4.729; scale 1.951

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description	Pred. No.
	1	1882	89.9	1968	7	US-08-321-	Sequence 17, Applicati	0.00e+00
	2	93	4.4	93	7	US-08-440-	Sequence 15, Applicati	2.55e-50
	3	93	4.4	93	15	PCT-US96-0	Sequence 15, Applicati	2.55e-50
	4	84	4.0	84	7	US-08-440-	Sequence 17, Applicati	1.93e-43
	5	84	4.0	84	15	PCT-US96-0	Sequence 17, Applicati	1.93e-43
	6	66	3.2	7218	7	US-08-232-	Sequence 14, Applicati	5.86e-30
	7	45	2.1	45	7	US-08-440-	Sequence 19, Applicati	5.80e-15
	8	45	2.1	45	15	PCT-US96-0	Sequence 19, Applicati	5.80e-15
	9	39	1.9	39	7	US-08-440-	Sequence 21, Applicati	6.39e-11
	10	39	1.9	39	15	PCT-US96-0	Sequence 21, Applicati	6.39e-11
c	11	39	1.9	7218	7	US-08-232-	Sequence 14, Applicati	6.39e-11
	12	38	1.8	215	6	US-08-238-	Sequence 5, Applicatio	2.91e-10
c	13	33	1.6	215	6	US-08-238-	Sequence 5, Applicatio	4.76e-07
c	14	25	1.2	74	14	PCT-US95-1	Sequence 100, Applicat	2.85e-02
	15	25	1.2	75	14	PCT-US95-1	Sequence 99, Applicati	2.85e-02
	16	25	1.2	81	14	PCT-US95-1	Sequence 92, Applicati	2.85e-02
c	17	25	1.2	81	14	PCT-US95-1	Sequence 98, Applicati	2.85e-02
	18	25	1.2	82	14	PCT-US95-1	Sequence 97, Applicati	2.85e-02
	19	22	1.1	65	7	US-08-471-	Sequence 145, Applicat	1.21e+00
c	20	22	1.1	65	7	US-08-471-	Sequence 145, Applicat	1.21e+00
	21	22	1.1	66	7	US-08-471-	Sequence 144, Applicat	1.21e+00
c	22	23	1.1	66	7	US-08-471-	Sequence 144, Applicat	3.57e-01
	23	22	1.1	68	7	US-08-471-	Sequence 143, Applicat	1.21e+00
c	24	22	1.1	68	7	US-08-471-	Sequence 143, Applicat	1.21e+00
	25	22	1.1	69	7	US-08-471-	Sequence 142, Applicat	1.21e+00
c	26	23	1.1	69	7	US-08-471-	Sequence 142, Applicat	3.57e-01
	27	24	1.1	74	14	PCT-US95-1	Sequence 94, Applicati	1.02e-01
	28	23	1.1	74	14	PCT-US95-1	Sequence 100, Applicat	3.57e-01
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c	30	24	1.1	75	14	PCT-US95-1	Sequence 99, Applicati	1.02e-01
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c	33	24	1.1	82	14	PCT-US95-1	Sequence 97, Applicati	1.02e-01
	34	22	1.1	85	7	US-08-438-	Sequence 26, Applicati	1.21e+00
	35	22	1.1	85	7	US-08-370-	Sequence 26, Applicati	1.21e+00
	36	22	1.1	85	13	PCT-US94-0	Sequence 1, Applicatio	1.21e+00
	37	22	1.1	85	13	PCT-US94-0	Sequence 26, Applicati	1.21e+00
	38	23	1.1	105	5	US-07-865-	Sequence 13, Applicati	3.57e-01
c	39	24	1.1	105	5	US-07-865-	Sequence 13, Applicati	1.02e-01
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c	41	22	1.1	2116	7	US-08-701-	Sequence 1, Applicatio	1.21e+00
	42	24	1.1	2492	12	PCT-US93-1	Sequence 13, Applicati	1.02e-01
	43	22	1.1	2818	6	US-08-366-	Sequence 1, Applicatio	1.21e+00
c	44	21	1.0	66	14	PCT-US95-1	Sequence 93, Applicati	3.98e+00
c	45	21	1.0	10627	5	US-08-060-	Sequence 12, Applicati	3.98e+00

ALIGNMENTS

RESULT 1
ID US-08-321-071A-17 STANDARD; DNA; UNC; 1968 BP.

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AC xxxxxx
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DT 01-JAN-1900
XX
DE Sequence 17, Application US/08321071A.
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CC Sequence 17, Application US/08321071A
CC Patent No. 5672686
CC GENERAL INFORMATION:
CC APPLICANT: CHITTENDEN, Thomas D.
CC TITLE OF INVENTION: APOPTOSIS RELATED PROTEIN Bcl-Y, AND METHODS
CC TITLE OF INVENTION: OF USE THEREOF
CC NUMBER OF SEQUENCES: 31
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: Hale and Dorr
CC STREET: 1455 Pennsylvania Avenue, N.W.
CC CITY: Washington
CC STATE: D.C.
CC ZIP: 20004
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: PatentIn Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/08/321,071A
CC FILING DATE: 11-OCT-1994
CC CLASSIFICATION: 514
CC PRIOR APPLICATION DATA:
CC APPLICATION NUMBER: PCT/US95/10103
CC FILING DATE: 09-AUG-1995
CC PRIOR APPLICATION DATA:
CC APPLICATION NUMBER: 08/287,427
CC FILING DATE: 09-AUG-1994
CC ATTORNEY/AGENT INFORMATION:
CC NAME: WIXON, HENRY N.
CC REGISTRATION NUMBER: 32,073
CC REFERENCE/DOCKET NUMBER: 104322.121CIP
CC TELECOMMUNICATION INFORMATION:

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CC       TELEPHONE:  202-942-8400
CC       TELEFAX:  202-942-8484
CC    INFORMATION FOR SEQ ID NO:  17:
CC      SEQUENCE CHARACTERISTICS:
CC       LENGTH:  1968 base pairs
CC       TYPE:  nucleic acid
CC       STRANDEDNESS:  single
CC       TOPOLOGY:  linear
CC     MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 1968 BP; 382 A; 560 C; 577 G; 449 T; 0 other;

  Query Match           89.9%;  Score 1882;  DB 7;  Length 1968;
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Qy    137 TGAGCCACCCGGGTTGGGCCAGGATCCCGGCAGGCTGATCCCGTCCTCCACTGAGACCTG 196

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Qy    197 AAAAATGGCTTCGGGGCAAGGCCCAGGTCCTCCCAGGCAGGAGTGCGGAGAGCCTGCCCT 256

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Qy    257 GCCCTCTGCTTCTGAGGAGCAGGTAGCCCAGGACACAGAGGAGGTTTTCCGCAGCTACGT 316

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Qy    317 TTTTTACCGCCATCAGCAGGAACAGGAGGCTGAAGGGGTGGCTGCCCCTGCCGACCCAGA 376

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Qy    737 AGCCCTGAACTTGGGCAATGGTCCCATCCTGAACGTGCTGGTGGTTCTGGGTGTGGTTCT 796

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Qy    917 AGGG-TCCCCCCTCAAGAGTACAGAAGCTTTAGCAAGTGTGCACTCCAGCTTCGGAGG-- 973

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Qy    974 CCCTGCGTGGGGGCCAGTCAGGCTGCAGAGGCACCTCAACATTGCATGGTGCTAGTG--C 1031

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Qy   1032 CCTCTCTCTGGGCCCAGGG-CTGTGGCCGTCTCCTCCCTCAGCTCTCTGGGACCTCCTTA 1090

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Qy   1091 GCCCTGTCTGCTAGGCGCTGGGGAGACTGATAACTTGGGGAGGCAAGAGACTGGGAGCCA 1150

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Qy   1391 AAGGTCCTGCTCAACTCTACCCCTGCTCCCATTCCTCCCTCCGGCCATACTGCCTTTGCA 1450

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Qy   1451 GTTGGACTCTCAGGGATTCTGGGCTTGGGGTGTGGGGTGGGGTGGAGTCGCAGACCAGAG 1510

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Qy   1631 CACCC-ATCCCTGGGGGCCTTGGGTGAGTGGCCTGCTAAGGCTCCTCCTTGCCCAGACTA 1689

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Qy   1690 CAGGGCTTAGGACTTGGTTTGTTATATCAGGGAAAAGGAGTAGGGAGTTCATCTGGAGGG 1749

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Qy   1809 ATGGCTCTGGCACAGTGTAATCCAGGGGTGTAGATGGGGGAACTGTGAATACTTGAACTC 1868

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Qy   1869 TGTTCCCCCACCCTCCATGCTCCTCACCTGTCTAGGTCTCCTCAGGGTGGGGGGTGACAG 1928

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Qy   1929 TGCCTTCTCTATTGG-CACAGCCTAGGGTCTTGGGGGTCAGGGGGGAGAAGTTCTTGATT 1987

Db   1861 CAGCCAAATGCAGGGAGGGGAGGCAGATGGAGCCCATAGGCCACCCCCTATCCTCTGAGT 1920
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Qy   1988 CAGCCAAATGCAGGGAGGGGAGGCAGATGGAGCCCATAGGCCACCCCCTATCCTCTGAGT 2047

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Qy   2048 GTTTGGAAATAAACTGTGCAATCCCCTCA 2076
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DT   01-JAN-1900
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CC   Sequence 15, Application US/08440391
CC   Patent No. 5656725
CC    GENERAL INFORMATION:
CC      APPLICANT:  CHITTENDEN, Thomas D.; and
CC      APPLICANT:  LUTZ, Robert J.
CC      TITLE OF INVENTION:  NOVEL PEPTIDES AND COMPOSITIONS WHICH
CC      TITLE OF INVENTION:  MODULATE APOPTOSIS
CC      NUMBER OF SEQUENCES:  34
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Hale and Dorr
CC        STREET:  1455 Pennsylvania Avenue, N.W.
CC        CITY:  Washington
CC        STATE:  D.C.
CC        ZIP:  20004
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/440,391
CC        FILING DATE:  12-MAY-1995
CC        CLASSIFICATION:  435
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  WIXON, HENRY N.
CC        REGISTRATION NUMBER:  32,073
CC        REFERENCE/DOCKET NUMBER:  104322.147
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  202-942-8400
CC        TELEFAX:  202-942-8484
CC     INFORMATION FOR SEQ ID NO:  15:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  93 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 93 BP; 22 A; 31 C; 26 G; 14 T; 0 other;

  Query Match             4.4%;  Score 93;  DB 7;  Length 93;
  Best Local Similarity 100.0%;  Pred. No. 2.55e-50;
  Matches    93;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

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Qy    417 CAGGTGGGACGGCAGCTCGCCATCATCGGGGACGACATCAACCGACGCTATGACTCAGAG 476

Db     61 TTCCAGACCATGTTGCAGCACCTGCAGCCCACG 93
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AC   xxxxxx
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DT   01-JAN-1900
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DE   Sequence 15, Application PC/TUS9606122.
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CC   Sequence 15, Application PC/TUS9606122
CC    GENERAL INFORMATION:
CC      APPLICANT:  IMMUNOGEN, INC.
CC      TITLE OF INVENTION:  NOVEL PEPTIDES AND COMPOSITIONS
CC      TITLE OF INVENTION:  WHICH MODULATE APOPTOSIS
CC      NUMBER OF SEQUENCES:  34
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Hale and Dorr
CC        STREET:  1455 Pennsylvania Avenue, N.W.
CC        CITY:  Washington
CC        STATE:  D.C.
CC        ZIP:  20004
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US96/06122
CC        FILING DATE:  HEREWITH
CC        CLASSIFICATION:
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US 08/440,391
CC        FILING DATE:  12-MAY-1995
CC        CLASSIFICATION:
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  WIXON, HENRY N.
CC        REGISTRATION NUMBER:  32,073
CC        REFERENCE/DOCKET NUMBER:  104322.147PCT
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  202-942-8400
CC        TELEFAX:  202-942-8484
CC     INFORMATION FOR SEQ ID NO:  15:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  93 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 93 BP; 22 A; 31 C; 26 G; 14 T; 0 other;

  Query Match             4.4%;  Score 93;  DB 15;  Length 93;
  Best Local Similarity 100.0%;  Pred. No. 2.55e-50;
  Matches    93;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

Db      1 CAGGTGGGACGGCAGCTCGCCATCATCGGGGACGACATCAACCGACGCTATGACTCAGAG 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy    417 CAGGTGGGACGGCAGCTCGCCATCATCGGGGACGACATCAACCGACGCTATGACTCAGAG 476

Db     61 TTCCAGACCATGTTGCAGCACCTGCAGCCCACG 93
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RESULT    4
ID   US-08-440-391-17 STANDARD; DNA; UNC; 84 BP.

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AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 17, Application US/08440391.
XX
CC   Sequence 17, Application US/08440391
CC   Patent No. 5656725
CC    GENERAL INFORMATION:
CC      APPLICANT:  CHITTENDEN, Thomas D.; and
CC      APPLICANT:  LUTZ, Robert J.
CC      TITLE OF INVENTION:  NOVEL PEPTIDES AND COMPOSITIONS WHICH
CC      TITLE OF INVENTION:  MODULATE APOPTOSIS
CC      NUMBER OF SEQUENCES:  34
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CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Hale and Dorr
CC        STREET:  1455 Pennsylvania Avenue, N.W.
CC        CITY:  Washington
CC        STATE:  D.C.
CC        ZIP:  20004
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/440,391
CC        FILING DATE:  12-MAY-1995
CC        CLASSIFICATION:  435
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  WIXON, HENRY N.
CC        REGISTRATION NUMBER:  32,073
CC        REFERENCE/DOCKET NUMBER:  104322.147
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  202-942-8400
CC        TELEFAX:  202-942-8484
CC    INFORMATION FOR SEQ ID NO:  17:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  84 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 84 BP; 20 A; 26 C; 26 G; 12 T; 0 other;

  Query Match             4.0%;  Score 84;  DB 7;  Length 84;
  Best Local Similarity 100.0%;  Pred. No. 1.93e-43;
  Matches    84;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

Db       1 CCTAGCAGCACCATGGGGCAGGTGGGACGGCAGCTCGCCATCATCGGGGACGACATCAAC 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy     399 CCTAGCAGCACCATGGGGCAGGTGGGACGGCAGCTCGCCATCATCGGGGACGACATCAAC 458

Db      61 CGACGCTATGACTCAGAGTTCCAG 84
           ||||||||||||||||||||||||
Qy     459 CGACGCTATGACTCAGAGTTCCAG 482


RESULT    5
ID   PCT-US96-06122-17 STANDARD; DNA; UNC; 84 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 17, Application PC/TUS9606122.
XX
CC   Sequence 17, Application PC/TUS9606122
CC    GENERAL INFORMATION:
CC      APPLICANT:  IMMUNOGEN, INC.
CC      TITLE OF INVENTION:  NOVEL PEPTIDES AND COMPOSITIONS
CC      TITLE OF INVENTION:  WHICH MODULATE APOPTOSIS
CC      NUMBER OF SEQUENCES:  34
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Hale and Dorr
CC        STREET:  1455 Pennsylvania Avenue, N.W.
CC        CITY:  Washington
CC        STATE:  D.C.
CC        ZIP:  20004
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US96/06122
CC        FILING DATE:  HEREWITH
CC        CLASSIFICATION:
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US 08/440,391
CC        FILING DATE:  12-MAY-1995
CC        CLASSIFICATION:
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  WIXON, HENRY N.
CC        REGISTRATION NUMBER:  32,073
CC        REFERENCE/DOCKET NUMBER:  104322.147PCT
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  202-942-8400
CC        TELEFAX:  202-942-8484
CC    INFORMATION FOR SEQ ID NO:  17:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  84 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 84 BP; 20 A; 26 C; 26 G; 12 T; 0 other;

  Query Match             4.0%;  Score 84;  DB 15;  Length 84;
  Best Local Similarity 100.0%;  Pred. No. 1.93e-43;
  Matches    84;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

Db       1 CCTAGCAGCACCATGGGGCAGGTGGGACGGCAGCTCGCCATCATCGGGGACGACATCAAC 60
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy     399 CCTAGCAGCACCATGGGGCAGGTGGGACGGCAGCTCGCCATCATCGGGGACGACATCAAC 458

Db      61 CGACGCTATGACTCAGAGTTCCAG 84
           ||||||||||||||||||||||||
Qy     459 CGACGCTATGACTCAGAGTTCCAG 482


RESULT    6
ID   US-08-232-463-14 STANDARD; DNA; UNC; 7218 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 14, Application US/08232463.
XX
CC   Sequence 14, Application US/08232463
CC   Patent No. 5670367
CC    GENERAL INFORMATION:
CC      APPLICANT:  DORNER, F.
CC      APPLICANT:  SCHEIFLINGER, F.
CC      APPLICANT:  FALKNER, F. G.
CC      TITLE OF INVENTION:  RECOMBINANT FOWLPOX VIRUS
CC      NUMBER OF SEQUENCES:  52
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Foley & Lardner
CC        STREET:  1800 Diagonal Road, Suite 500
CC        CITY:  Alexandria
CC        STATE:  VA
CC        COUNTRY:  USA
CC        ZIP:  22313-0299
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/232,463
CC        FILING DATE:
CC        CLASSIFICATION:  435
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US/07/935,313
CC        FILING DATE:
CC        APPLICATION NUMBER:  EP 91 114 300.6
```

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CC        FILING DATE:  26-AUG-1991
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  BENT, Stephen A.
CC        REGISTRATION NUMBER:  29,768
CC        REFERENCE/DOCKET NUMBER:  30472/114 IMMU
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (703)836-9300
CC        TELEFAX:  (703)683-4109
CC        TELEX:  899149
CC    INFORMATION FOR SEQ ID NO:  14:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  7218 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      IMMEDIATE SOURCE:
CC        CLONE:  pTZgpt-F1s
SQ   Sequence 7218 BP; 1944 A; 1491 C; 1486 G; 1929 T; 368 other;

  Query Match             3.2%;  Score 66;  DB 7;  Length 7218;
  Best Local Similarity   1.2%;  Pred. No. 5.86e-30;
  Matches     4;  Conservative  191;  Mismatches 129;  Indels   0;  Gaps   0;

Db   1117 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1176
           :::: :::  :::: ::::: ::::: :::::::::::  :: : :: ::::: :  ::
Qy   1395 TCCTGCTCAACTCTACCCCTGCTCCCATTCCTCCCTCCGGCCATACTGCCTTTGCAGTTG 1454

Db   1177 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1236
             :::::     ::::   :::    : :    :    :     :: :   ::    :: :
Qy   1455 GACTCTCAGGGATTCTGGGCTTGGGGTGTGGGGTGGGGTGGAGTCGCAGACCAGAGCTGT 1514

Db   1237 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1296
           ::   ::: : : ::     :::::   ::: ::::::    :::::::  :::::::::
Qy   1515 CTGAACTCACGTGTCAGAAGCCTCCAAGCCTGCCTCCCAAGGTCCTCTCAGTTCTCTCCC 1574

Db   1297 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1356
           :::::::::::::: :   : ::: :::::  ::: ::: :: :   :     :::::: ::
Qy   1575 TTCCTCTCTCCTTATAGACACTTGCTCCCAACCCATTCACTACAGGTGAAGGCTCTCACC 1634

Db   1357 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1416
           : :::::     ::::   :   :  ::: ::    ::::::::: :::   :: :
Qy   1635 CATCCCTGGGGGCCTTGGGTGAGTGGCCTGCTAAGGCTCCTCCTTGCCCAGACTACAGGG 1694

Db   1417 YYYYYYYYYYYYYYYYYYGTACCA 1440
           :::    :::  ::: :: || ||
Qy   1695 CTTAGGACTTGGTTTGTTATATCA 1718


RESULT    7
ID   US-08-440-391-19 STANDARD; DNA; UNC; 45 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 19, Application US/08440391.
XX
CC   Sequence 19, Application US/08440391
CC   Patent No. 5656725
CC    GENERAL INFORMATION:
CC      APPLICANT:  CHITTENDEN, Thomas D.; and
CC      APPLICANT:  LUTZ, Robert J.
CC      TITLE OF INVENTION:  NOVEL PEPTIDES AND COMPOSITIONS WHICH
CC      TITLE OF INVENTION:  MODULATE APOPTOSIS
CC      NUMBER OF SEQUENCES:  34
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Hale and Dorr
CC        STREET:  1455 Pennsylvania Avenue, N.W.
CC        CITY:  Washington
CC        STATE:  D.C.
CC        ZIP:  20004
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/440,391
CC        FILING DATE:  12-MAY-1995
CC        CLASSIFICATION:  435
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  WIXON, HENRY N.
CC        REGISTRATION NUMBER:  32,073
CC        REFERENCE/DOCKET NUMBER:  104322.147
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  202-942-8400
CC        TELEFAX:  202-942-8484
CC    INFORMATION FOR SEQ ID NO:  19:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  45 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 45 BP; 10 A; 15 C; 15 G; 5 T; 0 other;

  Query Match             2.1%;  Score 45;  DB 7;  Length 45;
  Best Local Similarity 100.0%;  Pred. No. 5.80e-15;
  Matches    45;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

Db      1 GTGGGACGGCAGCTCGCCATCATCGGGGACGACATCAACCGACGC 45
          |||||||||||||||||||||||||||||||||||||||||||||
Qy    420 GTGGGACGGCAGCTCGCCATCATCGGGGACGACATCAACCGACGC 464


RESULT    8
ID   PCT-US96-06122-19 STANDARD; DNA; UNC; 45 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 19, Application PC/TUS9606122.
XX
CC   Sequence 19, Application PC/TUS9606122
CC    GENERAL INFORMATION:
CC      APPLICANT:  IMMUNOGEN, INC.
CC      TITLE OF INVENTION:  NOVEL PEPTIDES AND COMPOSITIONS
CC      TITLE OF INVENTION:  WHICH MODULATE APOPTOSIS
CC      NUMBER OF SEQUENCES:  34
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Hale and Dorr
CC        STREET:  1455 Pennsylvania Avenue, N.W.
CC        CITY:  Washington
CC        STATE:  D.C.
CC        ZIP:  20004
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US96/06122
CC        FILING DATE:  HEREWITH
CC        CLASSIFICATION:
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US 08/440,391
CC        FILING DATE:  12-MAY-1995
CC        CLASSIFICATION:
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  WIXON, HENRY N.
CC        REGISTRATION NUMBER:  32,073
CC        REFERENCE/DOCKET NUMBER:  104322.147PCT
CC      TELECOMMUNICATION INFORMATION:
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CC       TELEPHONE:  202-942-8400
CC       TELEFAX:  202-942-8484
CC    INFORMATION FOR SEQ ID NO:  19:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  45 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 45 BP; 10 A; 15 C; 15 G; 5 T; 0 other;

  Query Match            2.1%;  Score 45;  DB 15;  Length 45;
  Best Local Similarity 100.0%;  Pred. No. 5.80e-15;
  Matches   45;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

Db      1 GTGGGACGGCAGCTCGCCATCATCGGGGACGACATCAACCGACGC 45
          |||||||||||||||||||||||||||||||||||||||||||||
Qy    420 GTGGGACGGCAGCTCGCCATCATCGGGGACGACATCAACCGACGC 464


RESULT   9
ID   US-08-440-391-21 STANDARD; DNA; UNC; 39 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 21, Application US/08440391.
XX
CC   Sequence 21, Application US/08440391
CC   Patent No. 5656725
CC    GENERAL INFORMATION:
CC      APPLICANT:  CHITTENDEN, Thomas D.; and
CC      APPLICANT:  LUTZ, Robert J.
CC      TITLE OF INVENTION:  NOVEL PEPTIDES AND COMPOSITIONS WHICH
CC      TITLE OF INVENTION:  MODULATE APOPTOSIS
CC      NUMBER OF SEQUENCES:  34
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Hale and Dorr
CC        STREET:  1455 Pennsylvania Avenue, N.W.
CC        CITY:  Washington
CC        STATE:  D.C.
CC        ZIP:  20004
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/440,391
CC        FILING DATE:  12-MAY-1995
CC        CLASSIFICATION:  435
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  WIXON, HENRY N.
CC        REGISTRATION NUMBER:  32,073
CC        REFERENCE/DOCKET NUMBER:  104322.147
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  202-942-8400
CC        TELEFAX:  202-942-8484
CC    INFORMATION FOR SEQ ID NO:  21:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  39 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 39 BP; 11 A; 11 C; 11 G; 6 T; 0 other;

  Query Match            1.9%;  Score 39;  DB 7;  Length 39;
  Best Local Similarity 100.0%;  Pred. No. 6.39e-11;
  Matches   39;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

Db      1 GGGGACGACATCAACCGACGCTATGACTCAGAGTTCCAG 39
          |||||||||||||||||||||||||||||||||||||||
Qy    444 GGGGACGACATCAACCGACGCTATGACTCAGAGTTCCAG 482


RESULT   10
ID   PCT-US96-06122-21 STANDARD; DNA; UNC; 39 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 21, Application PC/TUS9606122.
XX
CC   Sequence 21, Application PC/TUS9606122
CC    GENERAL INFORMATION:
CC      APPLICANT:  IMMUNOGEN, INC.
CC      TITLE OF INVENTION:  NOVEL PEPTIDES AND COMPOSITIONS
CC      TITLE OF INVENTION:  WHICH MODULATE APOPTOSIS
CC      NUMBER OF SEQUENCES:  34
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Hale and Dorr
CC        STREET:  1455 Pennsylvania Avenue, N.W.
CC        CITY:  Washington
CC        STATE:  D.C.
CC        ZIP:  20004
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US96/06122
CC        FILING DATE:  HEREWITH
CC        CLASSIFICATION:
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US 08/440,391
CC        FILING DATE:  12-MAY-1995
CC        CLASSIFICATION:
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  WIXON, HENRY N.
CC        REGISTRATION NUMBER:  32,073
CC        REFERENCE/DOCKET NUMBER:  104322.147PCT
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  202-942-8400
CC        TELEFAX:  202-942-8484
CC    INFORMATION FOR SEQ ID NO:  21:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  39 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 39 BP; 11 A; 11 C; 11 G; 6 T; 0 other;

  Query Match            1.9%;  Score 39;  DB 15;  Length 39;
  Best Local Similarity 100.0%;  Pred. No. 6.39e-11;
  Matches   39;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

Db      1 GGGGACGACATCAACCGACGCTATGACTCAGAGTTCCAG 39
          |||||||||||||||||||||||||||||||||||||||
Qy    444 GGGGACGACATCAACCGACGCTATGACTCAGAGTTCCAG 482


RESULT   11
ID   US-08-232-463-14 STANDARD; DNA; UNC; 7218 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
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```
DE   Sequence 14, Application US/08232463.
XX
CC   Sequence 14, Application US/08232463
CC   Patent No. 5670367
CC    GENERAL INFORMATION:
CC      APPLICANT:  DORNER, F.
CC      APPLICANT:  SCHEIFLINGER, F.
CC      APPLICANT:  FALKNER, F. G.
CC      TITLE OF INVENTION:  RECOMBINANT FOWLPOX VIRUS
CC      NUMBER OF SEQUENCES:  52
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Foley & Lardner
CC        STREET:  1800 Diagonal Road, Suite 500
CC        CITY:  Alexandria
CC        STATE:  VA
CC        COUNTRY:  USA
CC        ZIP:  22313-0299
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/232,463
CC        FILING DATE:
CC        CLASSIFICATION:  435
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US/07/935,313
CC        FILING DATE:
CC        APPLICATION NUMBER:  EP 91 114 300.6
CC        FILING DATE:  26-AUG-1991
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  BENT, Stephen A.
CC        REGISTRATION NUMBER:  29,768
CC        REFERENCE/DOCKET NUMBER:  30472/114 IMMU
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (703)836-9300
CC        TELEFAX:  (703)683-4109
CC        TELEX:  899149
CC     INFORMATION FOR SEQ ID NO:  14:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  7218 base pairs
CC         TYPE:  nucleic acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       IMMEDIATE SOURCE:
CC         CLONE:  pTZgpt-F1s
SQ   Sequence 7218 BP; 1944 A; 1491 C; 1486 G; 1929 T; 368 other;

  Query Match             1.9%;  Score 39;  DB 7;  Length 7218;
  Best Local Similarity   1.9%;  Pred. No. 6.39e-11;
  Matches     6;  Conservative  170;  Mismatches 137;  Indels   0;  Gaps   0;

Db   1130 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1189
           :::: ::: :::::::::::::: : :::  ::   ::     :::::::::::::  :::::
Cp   2019 CTCCATCTGCCTCCCCTCCCTGCATTTGGCTGAATCAAGAACTTCTCCCCCCTGACCCCC 1960

Db   1190 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1249
               ::::   :: : ::  :         : :: :: :::::: ::::        :::
Cp   1959 AAGACCCTAGGCTGTGCCAATAGAGAAGGCACTGTCACCCCCCACCCTGAGGAGACCTAG 1900

Db   1250 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1309
            :   :       : :       :       :    :::   : ::: :  :::::::: :::
Cp   1899 ACAGGTGAGGAGCATGGAGGGTGGGGGAACAGAGTTCAAGTATTCACAGTTCCCCCATCT 1840

Db   1310 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1369
            : :::::   :: : :: : ::    :: :          ::: :::::    :::::
Cp   1839 ACACCCCTGGATTACACTGTGCCAGAGCCATGAGGGAGGATCCACCTCTGGGATTCCTAG 1780

Db   1370 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1429
           :  : ::  :  :::::::::: :::    ::::::   :   :::::: ::::::::::
Cp   1779 TGGTGTTGATAGTCCTTCTCCCACTTAGAACCCTCCAGATGAACTCCCTACTCCTTTTCC 1720

Db   1430 YYYYYGTACCAAA 1442
             ::  : || ||||
Cp   1719 CTGATATAACAAA 1707


RESULT   12
ID   US-08-238-163-5 STANDARD; DNA; UNC; 215 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 5, Application US/08238163.
XX
CC   Sequence 5, Application US/08238163
CC   Patent No. 5569830
CC    GENERAL INFORMATION:
CC      APPLICANT:  BENNETT, Alan
CC      APPLICANT:  LABAVITCH, John M.
CC      APPLICANT:  POWELL, Ann
CC      APPLICANT:  STOTZ, Henrik
CC      TITLE OF INVENTION:  PLANT INHIBITORS OF FUNGAL
CC      TITLE OF INVENTION:  POLYGALACTURONASES AND THEIR USE TO CONTROL FUNGAL DISEA
CC      NUMBER OF SEQUENCES:  24
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Townsend and Townsend Khourie and Crew
CC        STREET:  Steuart Street Tower, One Market Plaza
CC        CITY:  San Francisco
CC        STATE:  California
CC        COUNTRY:  US
CC        ZIP:  94105-1493
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/238,163
CC        FILING DATE:  03-MAY-1994
CC        CLASSIFICATION:  800
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Bastian, Kevin L.
CC        REGISTRATION NUMBER:  34,774
CC        REFERENCE/DOCKET NUMBER:  2307E-540
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (415) 543-9600
CC        TELEFAX:  (415) 543-5043
CC     INFORMATION FOR SEQ ID NO:  5:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  215 base pairs
CC         TYPE:  nucleic acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  unknown
CC       MOLECULE TYPE:  protein
CC       FEATURE:
CC         NAME/KEY:  misc_feature
CC         LOCATION:  1..215
CC         OTHER INFORMATION:  /standard_name= "Deduced amino acid
CC         OTHER INFORMATION:  sequence of PGIP from bean."
SQ   Sequence 215 BP; 15 A; 8 C; 25 G; 26 T; 141 other;

  Query Match             1.8%;  Score 38;  DB 6;  Length 215;
  Best Local Similarity  16.9%;  Pred. No. 2.91e-10;
  Matches    27;  Conservative   67;  Mismatches  64;  Indels   2;  Gaps   2;

Db       2 TNVTMSSSSVVSRTASCNDKAKKDGNTTSSWTTDCCNRTWGVCDTDTTYRVNNDSGHNKY 61
           | :|::: ::: : |:   :  ::|  |::  |:||   :|: : :   ::  ::|: ::
Qy     224 TCCTCCCAGGCAGGAGTGCGGAGAGCCTGCCCTGCCCTCTGCTTCTGAGGAGCAGGTAGC 283

Db      62 SSANYNYGGNNVGAAKTHYYTHTNVSGAD-SKTVTDSYNASGTSSSNGGTDGNRSGADSY 120
           ::|   :   :| |: :::|:  : | : ::| |: :  :| :    | :| :  |::
Qy     284 CCAGGACACAGAGGAGGTTTTCCGCAGCTACGTTTTTTACCGCCATCAGCAGGAACAGGA 343
```

```
Db    121 GSSKTAMTSRNRTGKTANNAVDSRNMGDASVGSDKNTKKH 160
          |::: |: :: :||:      :  : :|: :: ::: |:::
Qy    344 GGCTGAA-GGGGTGGCTGCCCCTGCCGACCCAGAGATGGT 382


RESULT   13
ID   US-08-238-163-5 STANDARD; DNA; UNC; 215 BP.

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AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 5, Application US/08238163.
XX
CC   Sequence 5, Application US/08238163
CC   Patent No. 5569830
CC    GENERAL INFORMATION:
CC      APPLICANT:  BENNETT, Alan
CC      APPLICANT:  LABAVITCH, John M.
CC      APPLICANT:  POWELL, Ann
CC      APPLICANT:  STOTZ, Henrik
CC      TITLE OF INVENTION:  PLANT INHIBITORS OF FUNGAL
CC      TITLE OF INVENTION:  POLYGALACTURONASES AND THEIR USE TO CONTROL FUNGAL DISEASE
CC      NUMBER OF SEQUENCES:  24
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Townsend and Townsend Khourie and Crew
CC        STREET:  Steuart Street Tower, One Market Plaza
CC        CITY:  San Francisco
CC        STATE:  California
CC        COUNTRY:  US
CC        ZIP:  94105-1493
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/238,163
CC        FILING DATE:  03-MAY-1994
CC        CLASSIFICATION:  800
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Bastian, Kevin L.
CC        REGISTRATION NUMBER:  34,774
CC        REFERENCE/DOCKET NUMBER:  2307E-540
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (415) 543-9600
CC        TELEFAX:  (415) 543-5043
CC    INFORMATION FOR SEQ ID NO:  5:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  215 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  unknown
CC      MOLECULE TYPE:  protein
CC      FEATURE:
CC        NAME/KEY:  misc_feature
CC        LOCATION:  1..215
CC        OTHER INFORMATION:  /standard_name= "Deduced amino acid
CC        OTHER INFORMATION:  sequence of PGIP from bean."
SQ   Sequence 215 BP; 15 A; 8 C; 25 G; 26 T; 141 other;

  Query Match            1.6%;  Score 33;  DB 6;  Length 215;
  Best Local Similarity  13.7%;  Pred. No. 4.76e-07;
  Matches    26;  Conservative   74;  Mismatches  89;  Indels   1;  Gaps   1;

Db      9 SSVVSRTASCNDKAKKDGNTTSSWTTDCCNRTWGVCDTDTTYRVNNDSGHNKYSSANYNY 68
          :::::::| :  :: :::| | ::: |:|    :|:|: :  : :  :: : : ::  :
Cp   1025 GCACCATGCAATGTTGAGGTGCCTCTGCAGCCTGACTGGCCCCCACGC-AGGGCCTCCGA 967

Db     69 GGNNVGAAKTHYYTHTNVSGADSKTVTDSYNASGTSSSNGGTDGNRSGADSYGSSKTAMT 128
           |  :|| : : : :| :: |: :  |    |:    : || :| ::  :::  :: |:

Cp    966 AGCTGGAGTGCACACTTGCTAAAGCTTCTGTACTCTTGAGGGGGGACCCTGCAAGGGAAC 907

Db    129 SRNRTGKTANNAVDSRNMGDASVGSDKNTKKHAKNSADGKVGSKNNGDRNNRYGTGTKSN 188
          : :  :    |:::  :|   : ::   :::|: : : ::     |::      | ::
Cp    906 AGAGAAGGCAAAGACTTCGCTTAAGTCCAGGCAGGGGTCTGAACCGGGACCCAAAGGGCA 847

Db    189 VSNNCGGGNK 198
          ::   ||| :
Cp    846 CCCTTGGGAG 837


RESULT   14
ID   PCT-US95-11934-100 STANDARD; DNA; UNC; 74 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
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DE   Sequence 100, Application PC/TUS9511934.
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CC   Sequence 100, Application PC/TUS9511934
CC    GENERAL INFORMATION:
CC      APPLICANT:  Cytogen Corporation
CC      TITLE OF INVENTION:  Antigen Binding Peptides (Abtides) From
CC      TITLE OF INVENTION:  Peptide Libraries
CC      NUMBER OF SEQUENCES:  103
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Pennie & Edmonds
CC        STREET:  1155 Avenue of the Americas
CC        CITY:  New York
CC        STATE:  New York
CC        COUNTRY:  USA
CC        ZIP:  10036
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.30
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US95/11934
CC        FILING DATE:  20-SEP-1995
CC        CLASSIFICATION:
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Misrock, S. Leslie
CC        REGISTRATION NUMBER:  18,872
CC        REFERENCE/DOCKET NUMBER:  1101-196-228
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (212) 790-9090
CC        TELEFAX:  (212) 869-9741/8864
CC        TELEX:  66141 PENNIE
CC    INFORMATION FOR SEQ ID NO:  100:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  74 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 74 BP; 6 A; 6 C; 1 G; 1 T; 60 other;

  Query Match            1.2%;  Score 25;  DB 14;  Length 74;
  Best Local Similarity  10.4%;  Pred. No. 2.85e-02;
  Matches     7;  Conservative   19;  Mismatches  41;  Indels   0;  Gaps   0;

Db      6 VNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNN 65
          :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :     :  :  :  :
Cp    874 AGGGGTCTGAACCGGGACCCAAAGGGCACCCTTGGGAGTCATGATTTGAAGAATCTTCGT 815

Db     66 ACCACAA 72
          |||||||
Cp    814 ACCACAA 808
```

```
RESULT   15
ID   PCT-US95-11934-99 STANDARD; DNA; UNC; 75 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 99, Application PC/TUS9511934.
XX
CC   Sequence 99, Application PC/TUS9511934
CC    GENERAL INFORMATION:
CC      APPLICANT:  Cytogen Corporation
CC      TITLE OF INVENTION:  Antigen Binding Peptides (Abtides) From
CC      TITLE OF INVENTION:  Peptide Libraries
CC      NUMBER OF SEQUENCES:  103
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Pennie & Edmonds
CC        STREET:  1155 Avenue of the Americas
CC        CITY:  New York
CC        STATE:  New York
CC        COUNTRY:  USA
CC        ZIP:  10036
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.30
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US95/11934
CC        FILING DATE:  20-SEP-1995
CC        CLASSIFICATION:
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Misrock, S. Leslie
CC        REGISTRATION NUMBER:  18,872
CC        REFERENCE/DOCKET NUMBER:  1101-196-228
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (212) 790-9090
CC        TELEFAX:  (212) 869-9741/8864
CC        TELEX:  66141 PENNIE
CC     INFORMATION FOR SEQ ID NO:  99:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  75 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 75 BP; 1 A; 1 C; 7 G; 5 T; 61 other;

  Query Match            1.2%;  Score 25;  DB 14;  Length 75;
  Best Local Similarity  10.3%;  Pred. No. 2.85e-02;
  Matches     7;  Conservative   19;  Mismatches  42;  Indels   0;  Gaps   0;

Db       4 AGNNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNB 63
           ||   :  :  :  :  :  :     :  :  :  :  :  :  :  :  :  :  :  :
Qy      85 AGCCCCTGGGAGCAGCAGCCGCCAGCCCCTCGGACCTCCATCTCCACCCTGCTGAGCCAC 144

Db      64 NNBGGTTG 71
             :|||||
Qy     145 CCGGGTTG 152


Search completed: Wed May  6 23:26:35 1998
Job time : 121 secs.
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Release 3.0.5AA John F. Collins, Biocomputing Research Unit.

MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Run on: Wed May 6 09:34:23 1998; MasPar time 3.58 Seconds
337.331 Million cell updates/sec

Tabular output not generated.

Title: >US-08-320-157-7
Description: (1-211) from US08320157.pep
Perfect Score: 1561
Sequence: 1 MASGQGPGPPRQECGEPALP.....LVVLGVVLLGQFVVRRFFKS 211

Scoring table: PAM 150
Gap 11

Searched: 62627 seqs, 5720858 residues

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database: a-issued
1:back1 2:51 3:52 4:53 5:54 6:55 7:56 8:57 9:PCT90
10:PCT91 11:PCT92 12:PCT93 13:PCT94 14:PCT95 15:PCT96

Statistics: Mean 30.586; Variance 145.199; scale 0.211

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description	Pred. No.
1	1559	99.9	211	7	US-08-321-	Sequence 16, Applicati	2.88e-127
2	453	29.0	57	7	US-08-321-	Sequence 15, Applicati	5.47e-29
3	396	25.4	54	7	US-08-321-	Sequence 21, Applicati	4.35e-24
4	347	22.2	49	7	US-08-321-	Sequence 25, Applicati	6.50e-20
5	274	17.6	190	13	PCT-US94-0	Sequence 2, Applicatio	8.75e-14
6	274	17.6	190	7	US-08-081-	Sequence 2, Applicatio	8.75e-14
7	270	17.3	236	14	PCT-US95-0	Sequence 29, Applicati	1.88e-13
8	270	17.3	236	8	US-08-607-	Sequence 29, Applicati	1.88e-13
9	266	17.0	233	14	PCT-US95-0	Sequence 24, Applicati	4.03e-13
10	266	17.0	233	13	PCT-US94-0	Sequence 7, Applicatio	4.03e-13
11	266	17.0	233	7	US-08-081-	Sequence 6, Applicatio	4.03e-13
12	266	17.0	233	8	US-08-607-	Sequence 24, Applicati	4.03e-13
13	266	17.0	233	7	US-08-333-	Sequence 59, Applicati	4.03e-13
14	260	16.7	36	15	PCT-US96-0	Sequence 14, Applicati	1.26e-12
15	260	16.7	36	7	US-08-440-	Sequence 14, Applicati	1.26e-12
16	261	16.7	233	8	US-08-607-	Sequence 23, Applicati	1.04e-12
17	261	16.7	233	14	PCT-US95-0	Sequence 23, Applicati	1.04e-12
18	259	16.6	205	1	5459251-4	Patent No. 5459251.	1.53e-12
19	259	16.6	205	8	US-08-248-	Sequence 13, Applicati	1.53e-12
20	259	16.6	205	1	5506344-5	Patent No. 5506344.	1.53e-12
21	259	16.6	205	7	US-08-081-	Sequence 4, Applicatio	1.53e-12
22	259	16.6	205	13	PCT-US94-0	Sequence 5, Applicatio	1.53e-12
23	259	16.6	205	7	US-08-333-	Sequence 52, Applicati	1.53e-12
24	259	16.6	239	1	5506344-2	Patent No. 5506344.	1.53e-12
25	259	16.6	239	7	US-08-333-	Sequence 51, Applicati	1.53e-12
26	259	16.6	239	8	US-08-248-	Sequence 12, Applicati	1.53e-12
27	259	16.6	239	1	5459251-2	Patent No. 5459251.	1.53e-12
28	259	16.6	239	12	PCT-US93-0	Sequence 5, Applicatio	1.53e-12
29	258	16.5	239	14	PCT-US95-0	Sequence 20, Applicati	1.85e-12
30	258	16.5	239	8	US-08-607-	Sequence 20, Applicati	1.85e-12
31	255	16.3	239	8	US-08-248-	Sequence 10, Applicati	3.26e-12
32	255	16.3	239	7	US-08-112-	Sequence 10, Applicati	3.26e-12
33	252	16.1	154	5	US-08-077-	Sequence 3, Applicatio	5.76e-12
34	250	16.0	236	8	US-08-248-	Sequence 11, Applicati	8.42e-12
35	250	16.0	236	14	PCT-US95-0	Sequence 22, Applicati	8.42e-12
36	250	16.0	236	7	US-08-112-	Sequence 11, Applicati	8.42e-12
37	250	16.0	236	8	US-08-607-	Sequence 22, Applicati	8.42e-12
38	248	15.9	236	8	US-08-607-	Sequence 21, Applicati	1.23e-11
39	248	15.9	236	14	PCT-US95-0	Sequence 21, Applicati	1.23e-11
40	226	14.5	31	15	PCT-US96-0	Sequence 16, Applicati	7.72e-10
41	226	14.5	31	7	US-08-440-	Sequence 3, Applicatio	7.72e-10
42	226	14.5	31	7	US-08-440-	Sequence 16, Applicati	7.72e-10
43	226	14.5	31	15	PCT-US96-0	Sequence 3, Applicatio	7.72e-10
44	218	14.0	192	8	US-08-248-	Sequence 8, Applicatio	3.44e-09
45	218	14.0	192	7	US-08-112-	Sequence 8, Applicatio	3.44e-09

ALIGNMENTS

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RESULT    1
ID   US-08-321-071A-16     STANDARD;     PRT;   211 AA.
XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 16, Application US/08321071A.
XX
CC    Sequence 16, Application US/08321071A
CC    Patent No. 5672686
CC     GENERAL INFORMATION:
CC       APPLICANT:  CHITTENDEN, Thomas D.
CC       TITLE OF INVENTION:  APOPTOSIS RELATED PROTEIN Bcl-Y, AND METHODS
CC       TITLE OF INVENTION:  OF USE THEREOF
CC       NUMBER OF SEQUENCES:  31
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Hale and Dorr
CC         STREET:  1455 Pennsylvania Avenue, N.W.
CC         CITY:  Washington
CC         STATE:  D.C.
CC         ZIP:  20004
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/321,071A
CC         FILING DATE:  11-OCT-1994
CC         CLASSIFICATION:  514
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/10103
CC         FILING DATE:  09-AUG-1995
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/287,427
CC         FILING DATE:  09-AUG-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  WIXON, HENRY N.
CC         REGISTRATION NUMBER:  32,073
CC         REFERENCE/DOCKET NUMBER:  104322.121CIP
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-942-8400
CC         TELEFAX:  202-942-8484
CC     INFORMATION FOR SEQ ID NO:  16:
CC       SEQUENCE CHARACTERISTICS:
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CC         LENGTH:  211 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  peptide
SQ   SEQUENCE   211 AA; 23410 MW; 235207 CN;

  Query Match           99.9%;  Score 1559;  DB 7;  Length 211;
  Best Local Similarity  99.5%;  Pred. No. 2.88e-127;
  Matches   210;  Conservative    1;  Mismatches   0;  Indels   0;  Gaps   0;

Db      1 MASGQGPGPPRQECGEPALPSASEEQVAQDTEEVFRSYVFYRHQQEQEAEGVAAPADPEM 60
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy      1 MASGQGPGPPRQECGEPALPSASEEQVAQDTEEVFRSYVFYRHQQEQEAEGVAAPADPEM 60

Db     61 VTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIATSLFE 120
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy     61 VTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIATSLFE 120

Db    121 SGIDWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAA 180
          |||:||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy    121 SGINWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAA 180

Db    181 LNLGNGPILNVLVVLGVVLLGQFVVRRFFKS 211
          |||||||||||||||||||||||||||||||
Qy    181 LNLGNGPILNVLVVLGVVLLGQFVVRRFFKS 211


RESULT    2
ID   US-08-321-071A-15     STANDARD;     PRT;   57 AA.
XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 15, Application US/08321071A.
XX
CC    Sequence 15, Application US/08321071A
CC    Patent No. 5672686
CC     GENERAL INFORMATION:
CC       APPLICANT:  CHITTENDEN, Thomas D.
CC       TITLE OF INVENTION:  APOPTOSIS RELATED PROTEIN Bcl-Y, AND METHODS
CC       TITLE OF INVENTION:  OF USE THEREOF
CC       NUMBER OF SEQUENCES:  31
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Hale and Dorr
CC         STREET:  1455 Pennsylvania Avenue, N.W.
CC         CITY:  Washington
CC         STATE:  D.C.
CC         ZIP:  20004
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/321,071A
CC         FILING DATE:  11-OCT-1994
CC         CLASSIFICATION:  514
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/10103
CC         FILING DATE:  09-AUG-1995
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/287,427
CC         FILING DATE:  09-AUG-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  WIXON, HENRY N.
CC         REGISTRATION NUMBER:  32,073
CC         REFERENCE/DOCKET NUMBER:  104322.121CIP
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-942-8400
CC         TELEFAX:  202-942-8484
CC     INFORMATION FOR SEQ ID NO:  15:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  57 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  peptide
SQ   SEQUENCE   57 AA; 6559 MW; 15838 CN;

  Query Match           29.0%;  Score 453;  DB 7;  Length 57;
  Best Local Similarity 100.0%;  Pred. No. 5.47e-29;
  Matches    54;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

Db      1 NWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGW 54
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy    124 NWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGW 177


RESULT    3
ID   US-08-321-071A-21     STANDARD;     PRT;   54 AA.
XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 21, Application US/08321071A.
XX
CC    Sequence 21, Application US/08321071A
CC    Patent No. 5672686
CC     GENERAL INFORMATION:
CC       APPLICANT:  CHITTENDEN, Thomas D.
CC       TITLE OF INVENTION:  APOPTOSIS RELATED PROTEIN Bcl-Y, AND METHODS
CC       TITLE OF INVENTION:  OF USE THEREOF
CC       NUMBER OF SEQUENCES:  31
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Hale and Dorr
CC         STREET:  1455 Pennsylvania Avenue, N.W.
CC         CITY:  Washington
CC         STATE:  D.C.
CC         ZIP:  20004
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/321,071A
CC         FILING DATE:  11-OCT-1994
CC         CLASSIFICATION:  514
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/10103
CC         FILING DATE:  09-AUG-1995
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/287,427
CC         FILING DATE:  09-AUG-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  WIXON, HENRY N.
CC         REGISTRATION NUMBER:  32,073
CC         REFERENCE/DOCKET NUMBER:  104322.121CIP
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-942-8400
CC         TELEFAX:  202-942-8484
CC     INFORMATION FOR SEQ ID NO:  21:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  54 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  peptide
SQ   SEQUENCE   54 AA; 6172 MW; 15712 CN;

  Query Match           25.4%;  Score 396;  DB 7;  Length 54;
  Best Local Similarity 100.0%;  Pred. No. 4.35e-24;
  Matches    54;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;
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Db      1 GDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIATSLFESGINWGRVVALLGFG 54
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy     82 GDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIATSLFESGINWGRVVALLGFG 135


RESULT    4
ID   US-08-321-071A-25     STANDARD;     PRT;   49 AA.
XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 25, Application US/08321071A.
XX
CC    Sequence 25, Application US/08321071A
CC    Patent No. 5672686
CC     GENERAL INFORMATION:
CC       APPLICANT:  CHITTENDEN, Thomas D.
CC       TITLE OF INVENTION:  APOPTOSIS RELATED PROTEIN Bcl-Y, AND METHODS
CC       TITLE OF INVENTION:  OF USE THEREOF
CC       NUMBER OF SEQUENCES:  31
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Hale and Dorr
CC         STREET:  1455 Pennsylvania Avenue, N.W.
CC         CITY:  Washington
CC         STATE:  D.C.
CC         ZIP:  20004
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/321,071A
CC         FILING DATE:  11-OCT-1994
CC         CLASSIFICATION:  514
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/10103
CC         FILING DATE:  09-AUG-1995
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/287,427
CC         FILING DATE:  09-AUG-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  WIXON, HENRY N.
CC         REGISTRATION NUMBER:  32,073
CC         REFERENCE/DOCKET NUMBER:  104322.121CIP
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-942-8400
CC         TELEFAX:  202-942-8484
CC     INFORMATION FOR SEQ ID NO:  25:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  49 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  peptide
SQ   SEQUENCE   49 AA; 5639 MW; 12778 CN;

  Query Match           22.2%;  Score 347;  DB 7;  Length 49;
  Best Local Similarity 100.0%;  Pred. No. 6.50e-20;
  Matches    49;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

Db      1 VGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIATSLFESG 49
          |||||||||||||||||||||||||||||||||||||||||||||||||
Qy     74 VGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIATSLFESG 122


RESULT    5
ID   PCT-US94-07089-2     STANDARD;     PRT;   190 AA.
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AC   xxxxxx
XX
DT   01-JAN-1900
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DE   Sequence 2, Application PC/TUS9407089.
XX
CC    Sequence 2, Application PC/TUS9407089
CC     GENERAL INFORMATION:
CC       APPLICANT:
CC       TITLE OF INVENTION:  Vertebrate Apoptosis Gene:
CC       TITLE OF INVENTION:  Compositions and Methods
CC       NUMBER OF SEQUENCES:  9
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Arnold, White & Durkee
CC         STREET:  P.O. Box 4433
CC         CITY:  Houston
CC         STATE:  TX
CC         COUNTRY:  United States of America
CC         ZIP:  77210
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS, ASCII
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US94/07089
CC         FILING DATE:  CONCURRENTLY FILED
CC         CLASSIFICATION:
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/081.448
CC         FILING DATE:  22 JUNE 1993
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  PARKER, David L.
CC         REGISTRATION NUMBER:  32,165
CC         REFERENCE/DOCKET NUMBER:  ARCD090
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  512-320-7200
CC         TELEFAX:  713-789-2679
CC     INFORMATION FOR SEQ ID NO:  2:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  190 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   190 AA; 21467 MW; 192890 CN;

  Query Match           17.6%;  Score 274;  DB 13;  Length 190;
  Best Local Similarity 28.2%;  Pred. No. 8.75e-14;
  Matches    37;  Conservative   33;  Mismatches  59;  Indels   2;  Gaps   2;

Db     60 VVNGATVHRSSLEVHEIVRASDVRQALRDAGDEFELRYRRAFSDLTSQLHITPGTAYQSF 119
          |   |     :| ::     ::| : |   ||::: ||   |  :  :|: |:  ||: |
Qy     52 VAAPADPEMVTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYF 111

Db    120 EQVVNELFHDGVNWGRIVAFFSFGGALCVESVDKEMRVLVGRIVSWMTTYLTDH-LDPWI 178
            :   ||  |:||||:||:::||  | :   :  :  ::|::   :  ::  | :  ||
Qy    112 TKIATSLFESGINWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCIARWI 171

Db    179 QENGGWVRTAL 189
            : |||| :||
Qy    172 AQRGGWV-AAL 181


RESULT    6
ID   US-08-081-448-2     STANDARD;     PRT;   190 AA.
XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 2, Application US/08081448.
XX
CC    Sequence 2, Application US/08081448
CC    Patent No. 5646008
CC     GENERAL INFORMATION:
CC       APPLICANT:  Thompson, Craig B.
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CC       APPLICANT:  Boise, Lawrence H.
CC       TITLE OF INVENTION:  Vertebrate Apoptosis Gene:
CC       TITLE OF INVENTION:  Compositions and Methods
CC       NUMBER OF SEQUENCES:  8
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Arnold, White & Durkee
CC         STREET:  321 No. 5646008th Clark Street, Suite 800
CC         CITY:  Chicago
CC         STATE:  IL
CC         COUNTRY:  USA
CC         ZIP:  60610
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:. US/08/081,448
CC         FILING DATE:  19930622
CC         CLASSIFICATION:  424
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  No. 5646008thrup, Thomas E.
CC         REGISTRATION NUMBER:  33,268
CC         REFERENCE/DOCKET NUMBER:  ARCD090
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  312-744-0090
CC         TELEFAX:  312-755-4489
CC     INFORMATION FOR SEQ ID NO:  2:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  190 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   190 AA; 21467 MW; 192890 CN;

  Query Match           17.6%;  Score 274;  DB 7;  Length 190;
  Best Local Similarity  28.2%;  Pred. No. 8.75e-14;
  Matches    37;  Conservative   33;  Mismatches  59;  Indels   2;  Gaps   2;

Db      60 VVNGATVHRSSLEVHEIVRASDVRQALRDAGDEFELRYRRAFSDLTSQLHITPGTAYQSF 119
           |   |     :| ::     ::| : |   ||::: ||   |  :  :|: |:  ||: |
Qy      52 VAAPADPEMVTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYF 111

Db     120 EQVVNELFHDGVNWGRIVAFFSFGGALCVESVDKEMRVLVGRIVSWMTTYLTDH-LDPWI 178
             :   ||  |:||||:||:::||  | :   :  :  ::|::   :  ::  | : ||
Qy     112 TKIATSLFESGINWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCIARWI 171

Db     179 QENGGWVRTAL 189
             : |||| :||
Qy     172 AQRGGWV-AAL 181


RESULT    7
ID   PCT-US95-04600-29     STANDARD;     PRT;   236 AA.
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AC   xxxxxx
XX
DT   01-JAN-1900
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DE   Sequence 29, Application PC/TUS9504600.
XX
CC    Sequence 29, Application PC/TUS9504600
CC     GENERAL INFORMATION:
CC       APPLICANT:  LA JOLLA CANCER RESEARCH FOUNDATION
CC       TITLE OF INVENTION:  Interaction of Proteins Involved in
CC       TITLE OF INVENTION:  a Cell Death Pathway
CC       NUMBER OF SEQUENCES:  29
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Campbell and Flores
CC         STREET:  4370 La Jolla Village Drive, Suite 700
CC         CITY:  San Diego
CC         STATE:  California
CC         COUNTRY:  USA
CC         ZIP:  92122
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/04600
CC         FILING DATE:  12-APR-1995
CC         CLASSIFICATION:
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Imbra, Richard J.
CC         REGISTRATION NUMBER:  37,643
CC         REFERENCE/DOCKET NUMBER:  FP-LJ 1361
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (619) 535-9001
CC         TELEFAX:  (619) 535-8949
CC     INFORMATION FOR SEQ ID NO:  29:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  236 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
SQ   SEQUENCE   236 AA; 26679 MW; 437248 CN;

  Query Match           17.3%;  Score 270;  DB 14;  Length 236;
  Best Local Similarity  28.3%;  Pred. No. 1.88e-13;
  Matches    30;  Conservative   24;  Mismatches  51;  Indels   1;  Gaps   1;

Db      94 LRRAGDXFXRRYXRXFXXMXXQLHLTPXTAXXXFXXVVXELFRDGVNWGRIVAFFXFGGX 153
           |   || : |||   |  |  :|: |:  |   |  :   ||  |:||||:||:: ||
Qy      78 LAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIATSLFESGINWGRVVALLGFGYR 137

Db     154 MCVXSVXXEMXPLVXXIAXWMTXYLNRH-LXXWIQDNGGWDXFVEL 198
           : :      :  ::  ::  :  :: :| :  || : |||   ::|
Qy     138 LALHVYQHGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAALNL 183


RESULT    8
ID   US-08-607-269-29     STANDARD;     PRT;   236 AA.
XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 29, Application US/08607269.
XX
CC    Sequence 29, Application US/08607269
CC    Patent No. 5702897
CC     GENERAL INFORMATION:
CC       APPLICANT:  Reed, John C.
CC       APPLICANT:  Sato, Takaaki
CC       TITLE OF INVENTION:  Interaction of Proteins Involved in a
CC       TITLE OF INVENTION:  Cell Death Pathway
CC       NUMBER OF SEQUENCES:  29
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Campbell and Flores
CC         STREET:  4370 La Jolla Village Drive, Suite 700
CC         CITY:  San Diego
CC         STATE:  California
CC         COUNTRY:  USA
CC         ZIP:  92122
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/607,269
CC         FILING DATE:
CC         CLASSIFICATION:  435
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/226,876
CC         FILING DATE:  13-APR-1994
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CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Campbell, Cathryn A.
CC         REGISTRATION NUMBER:  31,815
CC         REFERENCE/DOCKET NUMBER:  P-LJ 9882
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (619) 535-9001
CC         TELEFAX:  (619) 535-8949
CC     INFORMATION FOR SEQ ID NO:  29:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  236 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
SQ   SEQUENCE   236 AA; 26679 MW; 437248 CN;

  Query Match           17.3%;  Score 270;  DB 8;  Length 236;
  Best Local Similarity  28.3%;  Pred. No. 1.88e-13;
  Matches    30;  Conservative   24;  Mismatches  51;  Indels   1;  Gaps   1;

Db      94 LRRAGDXFXRRYXRXFXXMXXQLHLTPXTAXXXFXXVVXELFRDGVNWGRIVAFFXFGGX 153
           |   || : |||   |  |  :|: |:  |   |  :   ||  |:||||:||:: ||
Qy      78 LAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIATSLFESGINWGRVVALLGFGYR 137

Db     154 MCVXSVXXEMXPLVXXIAXWMTXYLNRH-LXXWIQDNGGWDXFVEL 198
           : :      :  ::  ::  :  :: :| :  || : |||   ::|
Qy     138 LALHVYQHGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAALNL 183


RESULT    9
ID   PCT-US95-04600-24     STANDARD;     PRT;   233 AA.
XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 24, Application PC/TUS9504600.
XX
CC    Sequence 24, Application PC/TUS9504600
CC     GENERAL INFORMATION:
CC       APPLICANT:  LA JOLLA CANCER RESEARCH FOUNDATION
CC       TITLE OF INVENTION:  Interaction of Proteins Involved in
CC       TITLE OF INVENTION:  a Cell Death Pathway
CC       NUMBER OF SEQUENCES:  29
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Campbell and Flores
CC         STREET:  4370 La Jolla Village Drive, Suite 700
CC         CITY:  San Diego
CC         STATE:  California
CC         COUNTRY:  USA
CC         ZIP:  92122
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/04600
CC         FILING DATE:  12-APR-1995
CC         CLASSIFICATION:
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Imbra, Richard J.
CC         REGISTRATION NUMBER:  37,643
CC         REFERENCE/DOCKET NUMBER:  FP-LJ 1361
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (619) 535-9001
CC         TELEFAX:  (619) 535-8949
CC     INFORMATION FOR SEQ ID NO:  24:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  233 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
SQ   SEQUENCE   233 AA; 26063 MW; 275311 CN;

  Query Match           17.0%;  Score 266;  DB 14;  Length 233;
  Best Local Similarity  25.5%;  Pred. No. 4.03e-13;
  Matches    36;  Conservative   42;  Mismatches  60;  Indels   3;  Gaps   3;

Db      61 DSPAVNGATAHS-SSLDAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTA 119
           :: :| :::     :|  :    |: | : |   ||::: ||   |  :  :|: |:  |
Qy      48 EAEGVAAPADPEMVTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENA 107

Db     120 YQSFEQVVNELFRDGVNWGRIVAFFSFGGALCVESVDKEMQVLVSRIAAWMATYLNDH-L 178
           |: |  :   ||  |:||||:||:::||  | :   :  :  :::::  :  ::  | :
Qy     108 YEYFTKIATSLFESGINWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCI 167

Db     179 EPWIQENGGWDTFVELYGNNA 199
             || : ||| : ::| || :
Qy     168 ARWIAQRGGWVAALNL-GNGP 187


RESULT   10
ID   PCT-US94-07089-7     STANDARD;     PRT;   233 AA.
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AC   xxxxxx
XX
DT   01-JAN-1900
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DE   Sequence 7, Application PC/TUS9407089.
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CC    Sequence 7, Application PC/TUS9407089
CC     GENERAL INFORMATION:
CC       APPLICANT:
CC       TITLE OF INVENTION:  Vertebrate Apoptosis Gene:
CC       TITLE OF INVENTION:  Compositions and Methods
CC       NUMBER OF SEQUENCES:  9
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Arnold, White & Durkee
CC         STREET:  P.O. Box 4433
CC         CITY:  Houston
CC         STATE:  TX
CC         COUNTRY:  United States of America
CC         ZIP:  77210
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS, ASCII
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US94/07089
CC         FILING DATE:  CONCURRENTLY FILED
CC         CLASSIFICATION:
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/081.448
CC         FILING DATE:  22 JUNE 1993
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  PARKER, David L.
CC         REGISTRATION NUMBER:  32,165
CC         REFERENCE/DOCKET NUMBER:  ARCD090
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  512-320-7200
CC         TELEFAX:  713-789-2679
CC     INFORMATION FOR SEQ ID NO:  7:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  233 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   233 AA; 26049 MW; 275801 CN;

  Query Match           17.0%;  Score 266;  DB 13;  Length 233;
  Best Local Similarity  25.5%;  Pred. No. 4.03e-13;
  Matches    36;  Conservative   42;  Mismatches  60;  Indels   3;  Gaps   3;

Db      61 DSPAVNGATGHS-SSLDAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTA 119
           :: :| :::     :|  :    |: | : |   ||::: ||   |  :  :|: |:  |
Qy      48 EAEGVAAPADPEMVTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENA 107

Db     120 YQSFEQVVNELFRDGVNWGRIVAFFSFGGALCVESVDKEMQVLVSRIAAWMATYLNDH-L 178
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          |: |  :   ||  |:||||:||:::||  | :   :  :  ::::::  :  ::  | :
Qy    108 YEYFTKIATSLFESGINWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCI 167

Db    179 EPWIQENGGWDTFVELYGNNA 199
            || : ||| : ::| || :
Qy    168 ARWIAQRGGWVAALNL-GNGP 187


RESULT   11
ID   US-08-081-448-6     STANDARD;     PRT;   233 AA.
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AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 6, Application US/08081448.
XX
CC    Sequence 6, Application US/08081448
CC    Patent No. 5646008
CC     GENERAL INFORMATION:
CC       APPLICANT:  Thompson, Craig B.
CC       APPLICANT:  Boise, Lawrence H.
CC       TITLE OF INVENTION:  Vertebrate Apoptosis Gene:
CC       TITLE OF INVENTION:  Compositions and Methods
CC       NUMBER OF SEQUENCES:  8
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Arnold, White & Durkee
CC         STREET:  321 No. 5646008th Clark Street, Suite 800
CC         CITY:  Chicago
CC         STATE:  IL
CC         COUNTRY:  USA
CC         ZIP:  60610
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/081,448
CC         FILING DATE:  19930622
CC         CLASSIFICATION:  424
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  No. 5646008thrup, Thomas E.
CC         REGISTRATION NUMBER:  33,268
CC         REFERENCE/DOCKET NUMBER:  ARCD090
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  312-744-0090
CC         TELEFAX:  312-755-4489
CC      INFORMATION FOR SEQ ID NO:  6:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  233 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   233 AA; 26063 MW; 275311 CN;

  Query Match           17.0%;  Score 266;  DB 7;  Length 233;
  Best Local Similarity  25.5%;  Pred. No. 4.03e-13;
  Matches    36;  Conservative   42;  Mismatches  60;  Indels   3;  Gaps   3;

Db     61 DSPAVNGATAHS-SSLDAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTA 119
          :: :| :::     :|  :    |: | : |   ||::: ||   |  :  :|: |:  |
Qy     48 EAEGVAAPADPEMVTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENA 107

Db    120 YQSFEQVVNELFRDGVNWGRIVAFFSFGGALCVESVDKEMQVLVSRIAAWMATYLNDH-L 178
          |: |  :   ||  |:||||:||:::||  | :   :  :  ::::::  :  ::  | :
Qy    108 YEYFTKIATSLFESGINWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCI 167

Db    179 EPWIQENGGWDTFVELYGNNA 199
            || : ||| : ::| || :
Qy    168 ARWIAQRGGWVAALNL-GNGP 187


RESULT   12
ID   US-08-607-269-24     STANDARD;     PRT;   233 AA.
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AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 24, Application US/08607269.
XX
CC    Sequence 24, Application US/08607269
CC    Patent No. 5702897
CC     GENERAL INFORMATION:
CC       APPLICANT:  Reed, John C.
CC       APPLICANT:  Sato, Takaaki
CC       TITLE OF INVENTION:  Interaction of Proteins Involved in a
CC       TITLE OF INVENTION:  Cell Death Pathway
CC       NUMBER OF SEQUENCES:  29
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Campbell and Flores
CC         STREET:  4370 La Jolla Village Drive, Suite 700
CC         CITY:  San Diego
CC         STATE:  California
CC         COUNTRY:  USA
CC         ZIP:  92122
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/607,269
CC         FILING DATE:
CC         CLASSIFICATION:  435
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/226,876
CC         FILING DATE:  13-APR-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Campbell, Cathryn A.
CC         REGISTRATION NUMBER:  31,815
CC         REFERENCE/DOCKET NUMBER:  P-LJ 9882
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (619) 535-9001
CC         TELEFAX:  (619) 535-8949
CC      INFORMATION FOR SEQ ID NO:  24:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  233 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
SQ   SEQUENCE   233 AA; 26063 MW; 275311 CN;

  Query Match           17.0%;  Score 266;  DB 8;  Length 233;
  Best Local Similarity  25.5%;  Pred. No. 4.03e-13;
  Matches    36;  Conservative   42;  Mismatches  60;  Indels   3;  Gaps   3;

Db     61 DSPAVNGATAHS-SSLDAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTA 119
          :: :| :::     :|  :    |: | : |   ||::: ||   |  :  :|: |:  |
Qy     48 EAEGVAAPADPEMVTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENA 107

Db    120 YQSFEQVVNELFRDGVNWGRIVAFFSFGGALCVESVDKEMQVLVSRIAAWMATYLNDH-L 178
          |: |  :   ||  |:||||:||:::||  | :   :  :  ::::::  :  ::  | :
Qy    108 YEYFTKIATSLFESGINWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCI 167

Db    179 EPWIQENGGWDTFVELYGNNA 199
            || : ||| : ::| || :
Qy    168 ARWIAQRGGWVAALNL-GNGP 187


RESULT   13
ID   US-08-333-565-59     STANDARD;     PRT;   233 AA.
XX
AC   xxxxxx
XX
DT   01-JAN-1900
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XX
DE   Sequence 59, Application US/08333565.
XX
CC    Sequence 59, Application US/08333565
CC    Patent No. 5622852
CC     GENERAL INFORMATION:
CC       APPLICANT:  KORSMEYER, Stanley J.
CC       TITLE OF INVENTION:  Bcl-x/Bcl-2 ASSOCIATED CELL DEATH
CC       TITLE OF INVENTION:  REGULATOR
CC       NUMBER OF SEQUENCES:  59
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Townsend and Townsend Khourie and Crew
CC         STREET:  379 Lytton Avenue
CC         CITY:  Palo Alto
CC         STATE:  California
CC         COUNTRY:  US
CC         ZIP:  94301
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/333,565
CC         FILING DATE:  31-OCT-1994
CC         CLASSIFICATION:  435
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Smith, William M
CC         REGISTRATION NUMBER:  30,223
CC         REFERENCE/DOCKET NUMBER:  15726A-000700
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (415) 326-2400
CC         TELEFAX:  (415) 326-2422
CC     INFORMATION FOR SEQ ID NO:  59:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  233 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  unknown
CC       MOLECULE TYPE:  peptide
SQ   SEQUENCE   233 AA; 26049 MW; 275801 CN;

  Query Match           17.0%;  Score 266;  DB 7;  Length 233;
  Best Local Similarity  25.5%;  Pred. No. 4.03e-13;
  Matches    36;  Conservative   42;  Mismatches  60;  Indels   3;  Gaps   3;

Db     61 DSPAVNGATGHS-SSLDAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTA 119
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Qy     48 EAEGVAAPADPEMVTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENA 107

Db    120 YQSFEQVVNELFRDGVNWGRIVAFFSFGGALCVESVDKEMQVLVSRIAAWMATYLNDH-L 178
          |: |  :   ||  |:||||:||:::||  | :   :  :  :::::  :  ::  | :
Qy    108 YEYFTKIATSLFESGINWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCI 167

Db    179 EPWIQENGGWDTFVELYGNNA 199
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RESULT   14
ID   PCT-US96-06122-14     STANDARD;     PRT;   36 AA.
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AC   xxxxxx
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DT   01-JAN-1900
XX
DE   Sequence 14, Application PC/TUS9606122.
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CC    Sequence 14, Application PC/TUS9606122
CC     GENERAL INFORMATION:
CC       APPLICANT:  IMMUNOGEN, INC.
CC       TITLE OF INVENTION:  NOVEL PEPTIDES AND COMPOSITIONS
CC       TITLE OF INVENTION:  WHICH MODULATE APOPTOSIS
CC       NUMBER OF SEQUENCES:  34
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Hale and Dorr
CC         STREET:  1455 Pennsylvania Avenue, N.W.
CC         CITY:  Washington
CC         STATE:  D.C.
CC         ZIP:  20004
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US96/06122
CC         FILING DATE:  HEREWITH
CC         CLASSIFICATION:
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/440,391
CC         FILING DATE:  12-MAY-1995
CC         CLASSIFICATION:
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  WIXON, HENRY N.
CC         REGISTRATION NUMBER:  32,073
CC         REFERENCE/DOCKET NUMBER:  104322.147PCT
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-942-8400
CC         TELEFAX:  202-942-8484
CC     INFORMATION FOR SEQ ID NO:  14:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  36 base pairs
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  peptide
SQ   SEQUENCE   36 AA; 4120 MW; 6096 CN;

  Query Match           16.7%;  Score 260;  DB 15;  Length 36;
  Best Local Similarity 100.0%;  Pred. No. 1.26e-12;
  Matches    36;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

Db      1 LQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHL 36
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Qy     65 LQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHL 100


RESULT   15
ID   US-08-440-391-14     STANDARD;     PRT;   36 AA.
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AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 14, Application US/08440391.
XX
CC    Sequence 14, Application US/08440391
CC    Patent No. 5656725
CC     GENERAL INFORMATION:
CC       APPLICANT:  CHITTENDEN, Thomas D.; and
CC       APPLICANT:  LUTZ, Robert J.
CC       TITLE OF INVENTION:  NOVEL PEPTIDES AND COMPOSITIONS WHICH
CC       TITLE OF INVENTION:  MODULATE APOPTOSIS
CC       NUMBER OF SEQUENCES:  34
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Hale and Dorr
CC         STREET:  1455 Pennsylvania Avenue, N.W.
CC         CITY:  Washington
CC         STATE:  D.C.
CC         ZIP:  20004
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
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CC         APPLICATION NUMBER:  US/08/440,391
CC         FILING DATE:  12-MAY-1995
CC         CLASSIFICATION:  435
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  WIXON, HENRY N.
CC         REGISTRATION NUMBER:  32,073
CC         REFERENCE/DOCKET NUMBER:  104322.147
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-942-8400
CC         TELEFAX:  202-942-8484
CC     INFORMATION FOR SEQ ID NO:  14:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  36 base pairs
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  peptide
SQ   SEQUENCE   36 AA; 4120 MW; 6096 CN;

  Query Match           16.7%;  Score 260;  DB 7;  Length 36;
  Best Local Similarity 100.0%;  Pred. No. 1.26e-12;
  Matches    36;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

Db      1 LQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHL 36
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Qy     65 LQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHL 100


Search completed: Wed May  6 09:34:40 1998
Job time : 17 secs.
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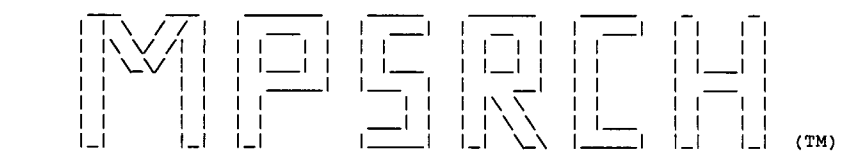

Release 3.0.5AA John F. Collins, Biocomputing Research Unit.

MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Run on: Wed May 6 09:37:57 1998; MasPar time 3.48 Seconds
347.077 Million cell updates/sec

Tabular output not generated.

Title: >US-08-320-157-9
Description: (1-211) from US08320157.pep
Perfect Score: 1554
Sequence: 1 MASGQGPGPPRQECGEPALP.....LVVLGVVLLGQFVVRRFFKS 211

Scoring table: PAM 150
Gap 11

Searched: 62627 seqs, 5720858 residues

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database: a-issued
1:back1 2:51 3:52 4:53 5:54 6:55 7:56 8:57 9:PCT90
10:PCT91 11:PCT92 12:PCT93 13:PCT94 14:PCT95 15:PCT96

Statistics: Mean 30.614; Variance 144.887; scale 0.211

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description	Pred. No.
1	1527	98.3	211	7	US-08-321-	Sequence 16, Applicati	9.20e-125
2	438	28.2	57	7	US-08-321-	Sequence 15, Applicati	8.85e-28
3	387	24.9	54	7	US-08-321-	Sequence 21, Applicati	2.17e-23
4	344	22.1	49	7	US-08-321-	Sequence 25, Applicati	1.01e-19
5	271	17.4	190	13	PCT-US94-0	Sequence 2, Applicatio	1.40e-13
6	271	17.4	190	7	US-08-081-	Sequence 2, Applicatio	1.40e-13
7	266	17.1	233	14	PCT-US95-0	Sequence 23, Applicati	3.66e-13
8	266	17.1	233	8	US-08-607-	Sequence 23, Applicati	3.66e-13
9	264	17.0	233	14	PCT-US95-0	Sequence 24, Applicati	5.36e-13
10	264	17.0	233	13	PCT-US94-0	Sequence 7, Applicatio	5.36e-13
11	264	17.0	233	7	US-08-081-	Sequence 6, Applicatio	5.36e-13
12	264	17.0	233	8	US-08-607-	Sequence 24, Applicati	5.36e-13
13	264	17.0	233	7	US-08-333-	Sequence 59, Applicati	5.36e-13
14	263	16.9	236	8	US-08-607-	Sequence 29, Applicati	6.49e-13
15	263	16.9	236	14	PCT-US95-0	Sequence 29, Applicati	6.49e-13
16	260	16.7	36	15	PCT-US96-0	Sequence 14, Applicati	1.15e-12
17	260	16.7	36	7	US-08-440-	Sequence 14, Applicati	1.15e-12
18	260	16.7	205	7	US-08-081-	Sequence 4, Applicatio	1.15e-12
19	260	16.7	205	8	US-08-248-	Sequence 13, Applicati	1.15e-12
20	260	16.7	205	13	PCT-US94-0	Sequence 5, Applicatio	1.15e-12
21	260	16.7	205	1	5459251-4	Patent No. 5459251.	1.15e-12
22	260	16.7	205	1	5506344-5	Patent No. 5506344.	1.15e-12
23	260	16.7	205	7	US-08-333-	Sequence 52, Applicati	1.15e-12
24	260	16.7	239	1	5506344-2	Patent No. 5506344.	1.15e-12
25	260	16.7	239	7	US-08-333-	Sequence 51, Applicati	1.15e-12
26	260	16.7	239	8	US-08-248-	Sequence 12, Applicati	1.15e-12
27	260	16.7	239	1	5459251-2	Patent No. 5459251.	1.15e-12
28	260	16.7	239	12	PCT-US93-0	Sequence 5, Applicatio	1.15e-12
29	259	16.7	239	14	PCT-US95-0	Sequence 20, Applicati	1.39e-12
30	259	16.7	239	8	US-08-607-	Sequence 20, Applicati	1.39e-12
31	256	16.5	239	8	US-08-248-	Sequence 10, Applicati	2.46e-12
32	256	16.5	239	7	US-08-112-	Sequence 10, Applicati	2.46e-12
33	253	16.3	154	5	US-08-077-	Sequence 3, Applicatio	4.36e-12
34	251	16.2	236	8	US-08-248-	Sequence 11, Applicati	6.37e-12
35	251	16.2	236	14	PCT-US95-0	Sequence 22, Applicati	6.37e-12
36	251	16.2	236	7	US-08-112-	Sequence 11, Applicati	6.37e-12
37	251	16.2	236	8	US-08-607-	Sequence 22, Applicati	6.37e-12
38	250	16.1	236	8	US-08-607-	Sequence 21, Applicati	7.71e-12
39	250	16.1	236	14	PCT-US95-0	Sequence 21, Applicati	7.71e-12
40	226	14.5	31	15	PCT-US96-0	Sequence 16, Applicati	7.15e-10
41	226	14.5	31	7	US-08-440-	Sequence 3, Applicatio	7.15e-10
42	226	14.5	31	7	US-08-440-	Sequence 16, Applicati	7.15e-10
43	226	14.5	31	15	PCT-US96-0	Sequence 3, Applicatio	7.15e-10
44	221	14.2	192	8	US-08-248-	Sequence 8, Applicatio	1.83e-09
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ALIGNMENTS

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RESULT    1
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AC   xxxxxx
XX
DT   01-JAN-1900
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DE   Sequence 16, Application US/08321071A.
XX
CC    Sequence 16, Application US/08321071A
CC    Patent No. 5672686
CC     GENERAL INFORMATION:
CC       APPLICANT:  CHITTENDEN, Thomas D.
CC       TITLE OF INVENTION:  APOPTOSIS RELATED PROTEIN Bcl-Y, AND METHODS
CC       TITLE OF INVENTION:  OF USE THEREOF
CC       NUMBER OF SEQUENCES:  31
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Hale and Dorr
CC         STREET:  1455 Pennsylvania Avenue, N.W.
CC         CITY:  Washington
CC         STATE:  D.C.
CC         ZIP:  20004
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/321,071A
CC         FILING DATE:  11-OCT-1994
CC         CLASSIFICATION:  514
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/10103
CC         FILING DATE:  09-AUG-1995
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/287,427
CC         FILING DATE:  09-AUG-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  WIXON, HENRY N.
CC         REGISTRATION NUMBER:  32,073
CC         REFERENCE/DOCKET NUMBER:  104322.121CIP
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-942-8400
CC         TELEFAX:  202-942-8484
CC     INFORMATION FOR SEQ ID NO:  16:
CC       SEQUENCE CHARACTERISTICS:
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CC         LENGTH:  211 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  peptide
SQ   SEQUENCE   211 AA; 23410 MW; 235207 CN;

  Query Match           98.3%;  Score 1527;  DB 7;  Length 211;
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  Matches   204;  Conservative    6;  Mismatches   1;  Indels   0;  Gaps   0;

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          |||:||||||||||:||||||:||:||||||||||||||||||||||||||||||||||||
Qy    121 SGINWGRVVALLGFSYRLALHIYQRGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAA 180

Db    181 LNLGNGPILNVLVVLGVVLLGQFVVRRFFKS 211
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AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 15, Application US/08321071A.
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CC    Sequence 15, Application US/08321071A
CC    Patent No. 5672686
CC     GENERAL INFORMATION:
CC       APPLICANT:  CHITTENDEN, Thomas D.
CC       TITLE OF INVENTION:  APOPTOSIS RELATED PROTEIN Bcl-Y, AND METHODS
CC       TITLE OF INVENTION:  OF USE THEREOF
CC       NUMBER OF SEQUENCES:  31
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Hale and Dorr
CC         STREET:  1455 Pennsylvania Avenue, N.W.
CC         CITY:  Washington
CC         STATE:  D.C.
CC         ZIP:  20004
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/321,071A
CC         FILING DATE:  11-OCT-1994
CC         CLASSIFICATION:  514
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/10103
CC         FILING DATE:  09-AUG-1995
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/287,427
CC         FILING DATE:  09-AUG-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  WIXON, HENRY N.
CC         REGISTRATION NUMBER:  32,073
CC         REFERENCE/DOCKET NUMBER:  104322.121CIP
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-942-8400
CC         TELEFAX:  202-942-8484
CC     INFORMATION FOR SEQ ID NO:  15:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  57 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  peptide
SQ   SEQUENCE   57 AA; 6559 MW; 15838 CN;

  Query Match           28.2%;  Score 438;  DB 7;  Length 57;
  Best Local Similarity  94.4%;  Pred. No. 8.85e-28;
  Matches    51;  Conservative    3;  Mismatches   0;  Indels   0;  Gaps   0;

Db      1 NWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGW 54
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Qy    124 NWGRVVALLGFSYRLALHIYQRGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGW 177


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AC   xxxxxx
XX
DT   01-JAN-1900
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DE   Sequence 21, Application US/08321071A.
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CC    Sequence 21, Application US/08321071A
CC    Patent No. 5672686
CC     GENERAL INFORMATION:
CC       APPLICANT:  CHITTENDEN, Thomas D.
CC       TITLE OF INVENTION:  APOPTOSIS RELATED PROTEIN Bcl-Y, AND METHODS
CC       TITLE OF INVENTION:  OF USE THEREOF
CC       NUMBER OF SEQUENCES:  31
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Hale and Dorr
CC         STREET:  1455 Pennsylvania Avenue, N.W.
CC         CITY:  Washington
CC         STATE:  D.C.
CC         ZIP:  20004
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/321,071A
CC         FILING DATE:  11-OCT-1994
CC         CLASSIFICATION:  514
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/10103
CC         FILING DATE:  09-AUG-1995
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/287,427
CC         FILING DATE:  09-AUG-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  WIXON, HENRY N.
CC         REGISTRATION NUMBER:  32,073
CC         REFERENCE/DOCKET NUMBER:  104322.121CIP
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-942-8400
CC         TELEFAX:  202-942-8484
CC     INFORMATION FOR SEQ ID NO:  21:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  54 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  peptide
SQ   SEQUENCE   54 AA; 6172 MW; 15712 CN;

  Query Match           24.9%;  Score 387;  DB 7;  Length 54;
  Best Local Similarity  96.3%;  Pred. No. 2.17e-23;
  Matches    52;  Conservative    2;  Mismatches   0;  Indels   0;  Gaps   0;
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Qy     82 GDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIASSLFESGINWGRVVALLGFS 135


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AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 25, Application US/08321071A.
XX
CC    Sequence 25, Application US/08321071A
CC    Patent No. 5672686
CC     GENERAL INFORMATION:
CC       APPLICANT:  CHITTENDEN, Thomas D.
CC       TITLE OF INVENTION:  APOPTOSIS RELATED PROTEIN Bcl-Y, AND METHODS
CC       TITLE OF INVENTION:  OF USE THEREOF
CC       NUMBER OF SEQUENCES:  31
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Hale and Dorr
CC         STREET:  1455 Pennsylvania Avenue, N.W.
CC         CITY:  Washington
CC         STATE:  D.C.
CC         ZIP:  20004
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/321,071A
CC         FILING DATE:  11-OCT-1994
CC         CLASSIFICATION:  514
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/10103
CC         FILING DATE:  09-AUG-1995
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/287,427
CC         FILING DATE:  09-AUG-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  WIXON, HENRY N.
CC         REGISTRATION NUMBER:  32,073
CC         REFERENCE/DOCKET NUMBER:  104322.121CIP
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-942-8400
CC         TELEFAX:  202-942-8484
CC     INFORMATION FOR SEQ ID NO:  25:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  49 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  peptide
SQ   SEQUENCE   49 AA; 5639 MW; 12778 CN;

  Query Match           22.1%;  Score 344;  DB 7;  Length 49;
  Best Local Similarity  98.0%;  Pred. No. 1.01e-19;
  Matches   48;  Conservative    1;  Mismatches   0;  Indels   0;  Gaps   0;

Db      1 VGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIATSLFESG 49
          |||||||||||||||||||||||||||||||||||||||||||||||||:||||||
Qy     74 VGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIASSLFESG 122


RESULT    5
ID   PCT-US94-07089-2     STANDARD;     PRT;   190 AA.
XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 2, Application PC/TUS9407089.
XX
CC    Sequence 2, Application PC/TUS9407089
CC     GENERAL INFORMATION:
CC       APPLICANT:
CC       TITLE OF INVENTION:  Vertebrate Apoptosis Gene:
CC       TITLE OF INVENTION:  Compositions and Methods
CC       NUMBER OF SEQUENCES:  9
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Arnold, White & Durkee
CC         STREET:  P.O. Box 4433
CC         CITY:  Houston
CC         STATE:  TX
CC         COUNTRY:  United States of America
CC         ZIP:  77210
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS, ASCII
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US94/07089
CC         FILING DATE:  CONCURRENTLY FILED
CC         CLASSIFICATION:
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/081.448
CC         FILING DATE:  22 JUNE 1993
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  PARKER, David L.
CC         REGISTRATION NUMBER:  32,165
CC         REFERENCE/DOCKET NUMBER:  ARCD090
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  512-320-7200
CC         TELEFAX:  713-789-2679
CC     INFORMATION FOR SEQ ID NO:  2:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  190 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   190 AA; 21467 MW; 192890 CN;

  Query Match           17.4%;  Score 271;  DB 13;  Length 190;
  Best Local Similarity  28.1%;  Pred. No. 1.40e-13;
  Matches   34;  Conservative   36;  Mismatches  49;  Indels   2;  Gaps   2;

Db     70 SLEVHEIVRASDVRQALRDAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFHD 129
          :| ::     ::| : |   ||::: ||   |  :  :|: |:  ||: |  : : ||
Qy     62 TLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIASSLFES 121

Db    130 GVNWGRIVAFFSFGGALCVESVDKEMRVLVGRIVSWMTTYLTDH-LDPWIQENGGWVRTA 188
          |:||||:||:::|:  | :   :: :  ::|::   :  ::  | :  || : |||| :|
Qy    122 GINWGRVVALLGFSYRLALHIYQRGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWV-AA 180

Db    189 L 189
          |
Qy    181 L 181


RESULT    6
ID   US-08-081-448-2     STANDARD;     PRT;   190 AA.
XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 2, Application US/08081448.
XX
CC    Sequence 2, Application US/08081448
CC    Patent No. 5646008
CC     GENERAL INFORMATION:
CC       APPLICANT:  Thompson, Craig B.
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CC       APPLICANT:  Boise, Lawrence H.
CC       TITLE OF INVENTION:  Vertebrate Apoptosis Gene:
CC       TITLE OF INVENTION:  Compositions and Methods
CC       NUMBER OF SEQUENCES:  8
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Arnold, White & Durkee
CC         STREET:  321 No. 5646008th Clark Street, Suite 800
CC         CITY:  Chicago
CC         STATE:  IL
CC         COUNTRY:  USA
CC         ZIP:  60610
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/081,448
CC         FILING DATE:  19930622
CC         CLASSIFICATION:  424
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  No. 5646008thrup, Thomas E.
CC         REGISTRATION NUMBER:  33,268
CC         REFERENCE/DOCKET NUMBER:  ARCD090
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  312-744-0090
CC         TELEFAX:  312-755-4489
CC     INFORMATION FOR SEQ ID NO:  2:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  190 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   190 AA; 21467 MW; 192890 CN;

  Query Match           17.4%;  Score 271;  DB 7;  Length 190;
  Best Local Similarity  28.1%;  Pred. No. 1.40e-13;
  Matches    34;  Conservative   36;  Mismatches  49;  Indels   2;  Gaps   2;

Db      70 SLEVHEIVRASDVRQALRDAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFHD 129
           :| ::     ::| : |   ||::: ||   |  :  :|: |:  ||: |  : : ||
Qy      62 TLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIASSLFES 121

Db     130 GVNWGRIVAFFSFGGALCVESVDKEMRVLVGRIVSWMTTYLTDH-LDPWIQENGGWVRTA 188
           |:||||:||:::|:  | :   :: :  ::|::   :  ::  | :  || : |||| :|
Qy     122 GINWGRVVALLGFSYRLALHIYQRGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWV-AA 180

Db     189 L 189
           |
Qy     181 L 181


RESULT    7
ID   PCT-US95-04600-23     STANDARD;     PRT;   233 AA.
XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 23, Application PC/TUS9504600.
XX
CC    Sequence 23, Application PC/TUS9504600
CC     GENERAL INFORMATION:
CC       APPLICANT:  LA JOLLA CANCER RESEARCH FOUNDATION
CC       TITLE OF INVENTION:  Interaction of Proteins Involved in
CC       TITLE OF INVENTION:  a Cell Death Pathway
CC       NUMBER OF SEQUENCES:  29
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Campbell and Flores
CC         STREET:  4370 La Jolla Village Drive, Suite 700
CC         CITY:  San Diego
CC         STATE:  California
CC         COUNTRY:  USA
CC         ZIP:  92122
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/04600
CC         FILING DATE:  12-APR-1995
CC         CLASSIFICATION:
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Imbra, Richard J.
CC         REGISTRATION NUMBER:  37,643
CC         REFERENCE/DOCKET NUMBER:  FP-LJ 1361
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (619) 535-9001
CC         TELEFAX:  (619) 535-8949
CC     INFORMATION FOR SEQ ID NO:  23:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  233 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
SQ   SEQUENCE   233 AA; 25687 MW; 280319 CN;

  Query Match           17.1%;  Score 266;  DB 14;  Length 233;
  Best Local Similarity  28.5%;  Pred. No. 3.66e-13;
  Matches    41;  Conservative   42;  Mismatches  56;  Indels   5;  Gaps   5;

Db      60 HHRPEPPGSAAASEVPPAE-GLRPAPP-G-VHLALRQAGDEFSRRYQRDFAQMSGQLHLT 116
           ::  |: |:||:::       |:|::  | |   |   ||:::|||: :|  |  :|: |
Qy      44 QQEQEAEGAAAPADPEMVTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPT 103

Db     117 PFTAHGRFVAVVEELFRDGVNWGRIVAFFEFGGVMCVESVNREMSPLVDNIATWMTEYLN 176
           :  |   |  :   ||  |:||||:||:: |:  : :    | :: ::  ::  : :::
Qy     104 AENAYEYFTKIASSLFESGINWGRVVALLGFSYRLALHIYQRGLTGFLGQVTRFVVDFML 163

Db     177 RH-LHNWIQDNGGWDAFVELYGNS 199
           :| :  || : ||| | ::| ||:
Qy     164 HHCIARWIAQRGGWVAALNL-GNG 186


RESULT    8
ID   US-08-607-269-23     STANDARD;     PRT;   233 AA.
XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 23, Application US/08607269.
XX
CC    Sequence 23, Application US/08607269
CC    Patent No. 5702897
CC     GENERAL INFORMATION:
CC       APPLICANT:  Reed, John C.
CC       APPLICANT:  Sato, Takaaki
CC       TITLE OF INVENTION:  Interaction of Proteins Involved in a
CC       TITLE OF INVENTION:  Cell Death Pathway
CC       NUMBER OF SEQUENCES:  29
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Campbell and Flores
CC         STREET:  4370 La Jolla Village Drive, Suite 700
CC         CITY:  San Diego
CC         STATE:  California
CC         COUNTRY:  USA
CC         ZIP:  92122
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/607,269
CC         FILING DATE:
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CC         CLASSIFICATION:  435
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/226,876
CC         FILING DATE:  13-APR-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Campbell, Cathryn A.
CC         REGISTRATION NUMBER:  31,815
CC         REFERENCE/DOCKET NUMBER:  P-LJ 9882
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (619) 535-9001
CC         TELEFAX:  (619) 535-8949
CC     INFORMATION FOR SEQ ID NO:  23:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  233 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
SQ   SEQUENCE   233 AA; 25687 MW; 280319 CN;

  Query Match           17.1%;  Score 266;  DB 8;  Length 233;
  Best Local Similarity  28.5%;  Pred. No. 3.66e-13;
  Matches    41;  Conservative   42;  Mismatches  56;  Indels   5;  Gaps   5;

Db     60 HHRPEPPGSAAASEVPPAE-GLRPAPP-G-VHLALRQAGDEFSRRYQRDFAQMSGQLHLT 116
           ::  |: |:||:::       |:|::  | |   |   ||:::|||: :|  |  :|: |
Qy     44 QQEQEAEGAAAPADPEMVTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPT 103

Db    117 PFTAHGRFVAVVEELFRDGVNWGRIVAFFEFGGVMCVESVNREMSPLVDNIATWMTEYLN 176
          :  |   |  :   ||  |:||||:||:: |:  : :    | :: ::  ::  : :::
Qy    104 AENAYEYFTKIASSLFESGINWGRVVALLGFSYRLALHIYQRGLTGFLGQVTRFVVDFML 163

Db    177 RH-LHNWIQDNGGWDAFVELYGNS 199
          :| :  || : ||| | ::| ||:
Qy    164 HHCIARWIAQRGGWVAALNL-GNG 186


RESULT    9
ID   PCT-US95-04600-24     STANDARD;     PRT;   233 AA.
XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 24, Application PC/TUS9504600.
XX
CC    Sequence 24, Application PC/TUS9504600
CC     GENERAL INFORMATION:
CC       APPLICANT:  LA JOLLA CANCER RESEARCH FOUNDATION
CC       TITLE OF INVENTION:  Interaction of Proteins Involved in
CC       TITLE OF INVENTION:  a Cell Death Pathway
CC       NUMBER OF SEQUENCES:  29
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Campbell and Flores
CC         STREET:  4370 La Jolla Village Drive, Suite 700
CC         CITY:  San Diego
CC         STATE:  California
CC         COUNTRY:  USA
CC         ZIP:  92122
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/04600
CC         FILING DATE:  12-APR-1995
CC         CLASSIFICATION:
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Imbra, Richard J.
CC         REGISTRATION NUMBER:  37,643
CC         REFERENCE/DOCKET NUMBER:  FP-LJ 1361
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (619) 535-9001
CC         TELEFAX:  (619) 535-8949
CC     INFORMATION FOR SEQ ID NO:  24:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  233 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
SQ   SEQUENCE   233 AA; 26063 MW; 275311 CN;

  Query Match           17.0%;  Score 264;  DB 14;  Length 233;
  Best Local Similarity  28.0%;  Pred. No. 5.36e-13;
  Matches    33;  Conservative   37;  Mismatches  46;  Indels   2;  Gaps   2;

Db     83 MAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVA 142
          |: | : |   ||::: ||   |  :  :|: |:  ||: |  : : ||  |:||||:||
Qy     71 MGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIASSLFESGINWGRVVA 130

Db    143 FFSFGGALCVESVDKEMQVLVSRIAAWMATYLNDH-LEPWIQENGGWDTFVELYGNNA 199
          :::|:  | :  :: : ::::::  :  ::  | :  || : ||| : ::| || :
Qy    131 LLGFSYRLALHIYQRGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAALNL-GNGP 187


RESULT   10
ID   PCT-US94-07089-7     STANDARD;     PRT;   233 AA.
XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 7, Application PC/TUS9407089.
XX
CC    Sequence 7, Application PC/TUS9407089
CC     GENERAL INFORMATION:
CC       APPLICANT:
CC       TITLE OF INVENTION:  Vertebrate Apoptosis Gene:
CC       TITLE OF INVENTION:  Compositions and Methods
CC       NUMBER OF SEQUENCES:  9
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Arnold, White & Durkee
CC         STREET:  P.O. Box 4433
CC         CITY:  Houston
CC         STATE:  TX
CC         COUNTRY:  United States of America
CC         ZIP:  77210
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS, ASCII
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US94/07089
CC         FILING DATE:  CONCURRENTLY FILED
CC         CLASSIFICATION:
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/081.448
CC         FILING DATE:  22 JUNE 1993
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  PARKER, David L.
CC         REGISTRATION NUMBER:  32,165
CC         REFERENCE/DOCKET NUMBER:  ARCD090
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  512-320-7200
CC         TELEFAX:  713-789-2679
CC     INFORMATION FOR SEQ ID NO:  7:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  233 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   233 AA; 26049 MW; 275801 CN;

  Query Match           17.0%;  Score 264;  DB 13;  Length 233;
  Best Local Similarity  28.0%;  Pred. No. 5.36e-13;
  Matches    33;  Conservative   37;  Mismatches  46;  Indels   2;  Gaps   2;

Db     83 MAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVA 142
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```
          |: | : |   ||::: ||   |  :  :|: |:  ||: |  : : ||  |:||||:||
Qy     71 MGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIASSLFESGINWGRVVA 130

Db    143 FFSFGGALCVESVDKEMQVLVSRIAAWMATYLNDH-LEPWIQENGGWDTFVELYGNNA 199
          :::|:  | :   :: :  ::::::  :  ::  | :  || : ||| : ::| || :
Qy    131 LLGFSYRLALHIYQRGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAALNL-GNGP 187


RESULT  11
ID   US-08-081-448-6     STANDARD;     PRT;   233 AA.
XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 6, Application US/08081448.
XX
CC    Sequence 6, Application US/08081448
CC    Patent No. 5646008
CC     GENERAL INFORMATION:
CC       APPLICANT:  Thompson, Craig B.
CC       APPLICANT:  Boise, Lawrence H.
CC       TITLE OF INVENTION:  Vertebrate Apoptosis Gene:
CC       TITLE OF INVENTION:  Compositions and Methods
CC       NUMBER OF SEQUENCES:  8
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Arnold, White & Durkee
CC         STREET:  321 No. 5646008th Clark Street, Suite 800
CC         CITY:  Chicago
CC         STATE:  IL
CC         COUNTRY:  USA
CC         ZIP:  60610
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/081,448
CC         FILING DATE:  19930622
CC         CLASSIFICATION:  424
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  No. 5646008thrup, Thomas E.
CC         REGISTRATION NUMBER:  33,268
CC         REFERENCE/DOCKET NUMBER:  ARCD090
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  312-744-0090
CC         TELEFAX:  312-755-4489
CC     INFORMATION FOR SEQ ID NO:  6:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  233 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   233 AA; 26063 MW; 275311 CN;

  Query Match           17.0%;  Score 264;  DB 7;  Length 233;
  Best Local Similarity  28.0%;  Pred. No. 5.36e-13;
  Matches    33;  Conservative   37;  Mismatches  46;  Indels   2;  Gaps   2;

Db     83 MAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVA 142
          |: | : |   ||::: ||   |  :  :|: |:  ||: |  : : ||  |:||||:||
Qy     71 MGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIASSLFESGINWGRVVA 130

Db    143 FFSFGGALCVESVDKEMQVLVSRIAAWMATYLNDH-LEPWIQENGGWDTFVELYGNNA 199
          :::|:  | :   :: :  ::::::  :  ::  | :  || : ||| : ::| || :
Qy    131 LLGFSYRLALHIYQRGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAALNL-GNGP 187


RESULT  12
ID   US-08-607-269-24     STANDARD;     PRT;   233 AA.
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AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 24, Application US/08607269.
XX
CC    Sequence 24, Application US/08607269
CC    Patent No. 5702897
CC     GENERAL INFORMATION:
CC       APPLICANT:  Reed, John C.
CC       APPLICANT:  Sato, Takaaki
CC       TITLE OF INVENTION:  Interaction of Proteins Involved in a
CC       TITLE OF INVENTION:  Cell Death Pathway
CC       NUMBER OF SEQUENCES:  29
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Campbell and Flores
CC         STREET:  4370 La Jolla Village Drive, Suite 700
CC         CITY:  San Diego
CC         STATE:  California
CC         COUNTRY:  USA
CC         ZIP:  92122
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/607,269
CC         FILING DATE:
CC         CLASSIFICATION:  435
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/226,876
CC         FILING DATE:  13-APR-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Campbell, Cathryn A.
CC         REGISTRATION NUMBER:  31,815
CC         REFERENCE/DOCKET NUMBER:  P-LJ 9882
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (619) 535-9001
CC         TELEFAX:  (619) 535-8949
CC     INFORMATION FOR SEQ ID NO:  24:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  233 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
SQ   SEQUENCE   233 AA; 26063 MW; 275311 CN;

  Query Match           17.0%;  Score 264;  DB 8;  Length 233;
  Best Local Similarity  28.0%;  Pred. No. 5.36e-13;
  Matches    33;  Conservative   37;  Mismatches  46;  Indels   2;  Gaps   2;

Db     83 MAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVA 142
          |: | : |   ||::: ||   |  :  :|: |:  ||: |  : : ||  |:||||:||
Qy     71 MGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIASSLFESGINWGRVVA 130

Db    143 FFSFGGALCVESVDKEMQVLVSRIAAWMATYLNDH-LEPWIQENGGWDTFVELYGNNA 199
          :::|:  | :   :: :  ::::::  :  ::  | :  || : ||| : ::| || :
Qy    131 LLGFSYRLALHIYQRGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAALNL-GNGP 187


RESULT  13
ID   US-08-333-565-59     STANDARD;     PRT;   233 AA.
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AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 59, Application US/08333565.
XX
CC    Sequence 59, Application US/08333565
CC    Patent No. 5622852
CC     GENERAL INFORMATION:
CC       APPLICANT:  KORSMEYER, Stanley J.
CC       TITLE OF INVENTION:  Bcl-x/Bcl-2 ASSOCIATED CELL DEATH
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CC       TITLE OF INVENTION:  REGULATOR
CC       NUMBER OF SEQUENCES:  59
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Townsend and Townsend Khourie and Crew
CC         STREET:  379 Lytton Avenue
CC         CITY:  Palo Alto
CC         STATE:  California
CC         COUNTRY:  US
CC         ZIP:  94301
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/333,565
CC         FILING DATE:  31-OCT-1994
CC         CLASSIFICATION:  435
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Smith, William M
CC         REGISTRATION NUMBER:  30,223
CC         REFERENCE/DOCKET NUMBER:  15726A-000700
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (415) 326-2400
CC         TELEFAX:  (415) 326-2422
CC     INFORMATION FOR SEQ ID NO:  59:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  233 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  unknown
CC       MOLECULE TYPE:  peptide
SQ   SEQUENCE   233 AA; 26049 MW; 275801 CN;

  Query Match           17.0%;  Score 264;  DB 7;  Length 233;
  Best Local Similarity  28.0%;  Pred. No. 5.36e-13;
  Matches    33;  Conservative   37;  Mismatches  46;  Indels   2;  Gaps   2;

Db      83 MAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVA 142
           |: | : |   ||::: ||   |  :  :|: |:  ||: |  : : ||  |:||||:||
Qy      71 MGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIASSLFESGINWGRVVA 130

Db     143 FFSFGGALCVESVDKEMQVLVSRIAAWMATYLNDH-LEPWIQENGGWDTFVELYGNNA 199
           :::|:  | :   :: :  ::::::  :  ::  | :  || : ||| : ::| || :
Qy     131 LLGFSYRLALHIYQRGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAALNL-GNGP 187


RESULT   14
ID   US-08-607-269-29     STANDARD;     PRT;   236 AA.
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AC   xxxxxx
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DT   01-JAN-1900
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DE   Sequence 29, Application US/08607269.
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CC    Sequence 29, Application US/08607269
CC    Patent No. 5702897
CC     GENERAL INFORMATION:
CC       APPLICANT:  Reed, John C.
CC       APPLICANT:  Sato, Takaaki
CC       TITLE OF INVENTION:  Interaction of Proteins Involved in a
CC       TITLE OF INVENTION:  Cell Death Pathway
CC       NUMBER OF SEQUENCES:  29
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Campbell and Flores
CC         STREET:  4370 La Jolla Village Drive, Suite 700
CC         CITY:  San Diego
CC         STATE:  California
CC         COUNTRY:  USA
CC         ZIP:  92122
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/607,269
CC         FILING DATE:
CC         CLASSIFICATION:  435
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/226,876
CC         FILING DATE:  13-APR-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Campbell, Cathryn A.
CC         REGISTRATION NUMBER:  31,815
CC         REFERENCE/DOCKET NUMBER:  P-LJ 9882
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (619) 535-9001
CC         TELEFAX:  (619) 535-8949
CC     INFORMATION FOR SEQ ID NO:  29:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  236 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
SQ   SEQUENCE   236 AA; 26679 MW; 437248 CN;

  Query Match           16.9%;  Score 263;  DB 8;  Length 236;
  Best Local Similarity  27.4%;  Pred. No. 6.49e-13;
  Matches    29;  Conservative   25;  Mismatches  51;  Indels   1;  Gaps   1;

Db      94 LRRAGDXFXRRYXRXFXXMXXQLHLTPXTAXXXFXXVVXELFRDGVNWGRIVAFFXFGGX 153
           |   || : |||   |  |  :|: |:  |   |  :   ||  |:||||:||:: |:
Qy      78 LAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIASSLFESGINWGRVVALLGFSYR 137

Db     154 MCVXSVXXEMXPLVXXIAXWMTXYLNRH-LXXWIQDNGGWDXFVEL 198
           : :      :  ::  ::  :  :: :| :  || : |||   ::|
Qy     138 LALHIYQRGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAALNL 183


RESULT   15
ID   PCT-US95-04600-29     STANDARD;     PRT;   236 AA.
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AC   xxxxxx
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DT   01-JAN-1900
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DE   Sequence 29, Application PC/TUS9504600.
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CC    Sequence 29, Application PC/TUS9504600
CC     GENERAL INFORMATION:
CC       APPLICANT:  LA JOLLA CANCER RESEARCH FOUNDATION
CC       TITLE OF INVENTION:  Interaction of Proteins Involved in
CC       TITLE OF INVENTION:  a Cell Death Pathway
CC       NUMBER OF SEQUENCES:  29
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Campbell and Flores
CC         STREET:  4370 La Jolla Village Drive, Suite 700
CC         CITY:  San Diego
CC         STATE:  California
CC         COUNTRY:  USA
CC         ZIP:  92122
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/04600
CC         FILING DATE:  12-APR-1995
CC         CLASSIFICATION:
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Imbra, Richard J.
CC         REGISTRATION NUMBER:  37,643
CC         REFERENCE/DOCKET NUMBER:  FP-LJ 1361
CC       TELECOMMUNICATION INFORMATION:
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CC TELEPHONE: (619) 535-9001
CC TELEFAX: (619) 535-8949
CC INFORMATION FOR SEQ ID NO: 29:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 236 amino acids
CC TYPE: amino acid
CC TOPOLOGY: linear
SQ SEQUENCE 236 AA; 26679 MW; 437248 CN;

Query Match 16.9%; Score 263; DB 14; Length 236;
Best Local Similarity 27.4%; Pred. No. 6.49e-13;
Matches 29; Conservative 25; Mismatches 51; Indels 1; Gaps 1;

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Db      94 LRRAGDXFXRRYXRXFXXMXXQLHLTPXTAXXXFXXVVXELFRDGVNWGRIVAFFXFGGX 153
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Qy      78 LAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIASSLFESGINWGRVVALLGFSYR 137

Db     154 MCVXSVXXEMXPLVXXIAXWMTXYLNRH-LXXWIQDNGGWDXFVEL 198
           : :      :  ::  ::  :  :: :| :  || : |||   ::|
Qy     138 LALHIYQRGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAALNL 183
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Search completed: Wed May 6 09:38:25 1998
Job time : 28 secs.

Release 3.0.5AA John F. Collins, Biocomputing Research Unit.

MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Run on: Wed May 6 09:41:12 1998; MasPar time 2.20 Seconds
229.083 Million cell updates/sec

Tabular output not generated.

Title: >US-08-320-157-21
Description: (1-88) from US08320157.pep
Perfect Score: 643
Sequence: 1 MASGQGPGPPRQECGKPALP.....APWGRWDGSSPSPGRHQPAL 88

Scoring table: PAM 150
Gap 11

Searched: 62627 seqs, 5720858 residues

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database: a-issued
1:back1 2:51 3:52 4:53 5:54 6:55 7:56 8:57 9:PCT90
10:PCT91 11:PCT92 12:PCT93 13:PCT94 14:PCT95 15:PCT96

Statistics: Mean 25.938; Variance 105.134; scale 0.247

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description	Pred. No.
1	213	33.1	211	7	US-08-321-	Sequence 16, Applicati	8.46e-12
2	78	12.1	429	4	US-07-964-	Sequence 2, Applicatio	1.33e+01
3	78	12.1	429	12	PCT-US93-0	Sequence 2, Applicatio	1.33e+01
4	74	11.5	1852	7	US-08-425-	Sequence 24, Applicati	2.73e+01
5	74	11.5	1863	14	PCT-US95-1	Sequence 2, Applicatio	2.73e+01
6	74	11.5	1863	14	PCT-US95-1	Sequence 2, Applicatio	2.73e+01
7	74	11.5	1863	8	US-08-483-	Sequence 2, Applicatio	2.73e+01
8	74	11.5	1863	7	US-08-598-	Sequence 2, Applicatio	2.73e+01
9	74	11.5	1863	8	US-08-487-	Sequence 2, Applicatio	2.73e+01
10	74	11.5	1863	14	PCT-US95-1	Sequence 2, Applicatio	2.73e+01
11	74	11.5	1863	7	US-08-480-	Sequence 2, Applicatio	2.73e+01
12	74	11.5	1863	7	US-08-425-	Sequence 16, Applicati	2.73e+01
13	73	11.4	53	1	5422248-4	Patent No. 5422248.	3.26e+01
14	73	11.4	191	14	PCT-US95-1	Sequence 175, Applicat	3.26e+01
15	73	11.4	902	8	US-08-818-	Sequence 6, Applicatio	3.26e+01
16	73	11.4	902	7	US-08-396-	Sequence 6, Applicatio	3.26e+01
17	72	11.2	451	8	US-08-417-	Sequence 12, Applicati	3.89e+01
18	72	11.2	482	5	US-08-184-	Sequence 8, Applicatio	3.89e+01
19	72	11.2	482	14	PCT-US95-0	Sequence 8, Applicatio	3.89e+01
20	72	11.2	626	14	PCT-US95-0	Sequence 2, Applicatio	3.89e+01
21	72	11.2	626	5	US-08-184-	Sequence 2, Applicatio	3.89e+01
22	72	11.2	633	13	PCT-US94-0	Sequence 17, Applicati	3.89e+01
23	72	11.2	633	14	PCT-US95-1	Sequence 7, Applicatio	3.89e+01
24	72	11.2	633	6	US-08-250-	Sequence 17, Applicati	3.89e+01
25	72	11.2	633	14	PCT-US95-0	Sequence 17, Applicati	3.89e+01
26	72	11.2	633	8	US-08-490-	Sequence 17, Applicati	3.89e+01
27	72	11.2	1694	8	US-08-494-	Sequence 2, Applicatio	3.89e+01
28	71	11.0	191	14	PCT-US95-1	Sequence 170, Applicat	4.64e+01
29	71	11.0	191	14	PCT-US95-1	Sequence 162, Applicat	4.64e+01
30	71	11.0	453	1	5206152-7	Patent No. 5206152.	4.64e+01
31	71	11.0	597	7	US-08-462-	Sequence 1, Applicatio	4.64e+01
32	71	11.0	605	7	US-08-462-	Sequence 3, Applicatio	4.64e+01
33	71	11.0	729	3	US-07-640-	Sequence 3, Applicatio	4.64e+01
34	71	11.0	1184	7	US-08-446-	Sequence 20, Applicati	4.64e+01
35	71	11.0	1184	8	US-08-446-	Sequence 20, Applicati	4.64e+01
36	71	11.0	1187	14	PCT-US95-1	Sequence 8, Applicatio	4.64e+01
37	71	11.0	1187	8	US-08-097-	Sequence 13, Applicati	4.64e+01
38	71	11.0	1187	8	US-08-357-	Sequence 8, Applicatio	4.64e+01
39	70	10.9	423	8	US-08-464-	Sequence 25, Applicati	5.53e+01
40	70	10.9	461	12	PCT-US93-1	Sequence 2, Applicatio	5.53e+01
41	70	10.9	925	7	US-08-252-	Sequence 4, Applicatio	5.53e+01
42	70	10.9	1898	7	US-08-056-	Sequence 94, Applicati	5.53e+01
43	69	10.7	1911	7	US-08-348-	Sequence 5, Applicatio	6.59e+01
44	69	10.7	1911	13	PCT-US94-1	Sequence 5, Applicatio	6.59e+01
45	69	10.7	2396	7	US-08-157-	Sequence 2, Applicatio	6.59e+01

ALIGNMENTS

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ID   US-08-321-071A-16     STANDARD;     PRT;   211 AA.
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DT   01-JAN-1900
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DE   Sequence 16, Application US/08321071A.
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CC    Sequence 16, Application US/08321071A
CC    Patent No. 5672686
CC     GENERAL INFORMATION:
CC       APPLICANT:  CHITTENDEN, Thomas D.
CC       TITLE OF INVENTION:  APOPTOSIS RELATED PROTEIN Bcl-Y, AND METHODS
CC       TITLE OF INVENTION:  OF USE THEREOF
CC       NUMBER OF SEQUENCES:  31
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Hale and Dorr
CC         STREET:  1455 Pennsylvania Avenue, N.W.
CC         CITY:  Washington
CC         STATE:  D.C.
CC         ZIP:  20004
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/321,071A
CC         FILING DATE:  11-OCT-1994
CC         CLASSIFICATION:  514
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/10103
CC         FILING DATE:  09-AUG-1995
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/287,427
CC         FILING DATE:  09-AUG-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  WIXON, HENRY N.
CC         REGISTRATION NUMBER:  32,073
CC         REFERENCE/DOCKET NUMBER:  104322.121CIP
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-942-8400
CC         TELEFAX:  202-942-8484
CC     INFORMATION FOR SEQ ID NO:  16:
CC       SEQUENCE CHARACTERISTICS:
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CC         LENGTH:  211 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  peptide
SQ   SEQUENCE   211 AA; 23410 MW; 235207 CN;

  Query Match            33.1%;  Score 213;  DB 7;  Length 211;
  Best Local Similarity  78.0%;  Pred. No. 8.46e-12;
  Matches    32;  Conservative    2;  Mismatches   6;  Indels   1;  Gaps   1;

Db      1 MASGQGPGPPRQECGEPALPSASEEQVAQDTEEVFRSYVFY 41
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Qy      1 MASGQGPGPPRQECGKPALPSASEEQVAQDMEG-FSAATFF 40


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ID   US-07-964-589-2     STANDARD;     PRT;   429 AA.
XX
AC   xxxxxx
XX
DT   01-JAN-1900
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DE   Sequence 2, Application US/07964589.
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CC    Sequence 2, Application US/07964589
CC    Patent No. 5387676
CC     GENERAL INFORMATION:
CC       APPLICANT:  Zavada, Jan
CC       APPLICANT:  Pastorekova, Silvia
CC       APPLICANT:  Pastorek, Jaromir
CC       TITLE OF INVENTION:  MN Gene and Protein
CC       NUMBER OF SEQUENCES:  4
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Leona L. Lauder
CC         STREET:  Steuart Street Tower, 18th Fl., One Market
CC         STREET:  Plaza
CC         CITY:  San Francisco
CC         STATE:  CA
CC         COUNTRY:  USA
CC         ZIP:  94105
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/07/964,589
CC         FILING DATE:  19921021
CC         CLASSIFICATION:  435
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Lauder, Leona L
CC         REGISTRATION NUMBER:  30,863
CC         REFERENCE/DOCKET NUMBER:  D-0021
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  415-777-9257
CC         TELEFAX:  415-543-4219
CC     INFORMATION FOR SEQ ID NO:  2:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  429 amino acids
CC         TYPE:  AMINO ACID
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   429 AA; 47631 MW; 926009 CN;

  Query Match            12.1%;  Score 78;  DB 4;  Length 429;
  Best Local Similarity  36.0%;  Pred. No. 1.33e+01;
  Matches     9;  Conservative   12;  Mismatches   2;  Indels   2;  Gaps   2;

Db    159 RQWPQCATD-PASWAR-DGSGSRAG 181
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Qy     58 QRWSPCPSNLAAPWGRWDGSSPSPG 82


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AC   xxxxxx
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DT   01-JAN-1900
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DE   Sequence 2, Application PC/TUS9302024.
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CC    Sequence 2, Application PC/TUS9302024
CC     GENERAL INFORMATION:
CC       APPLICANT:  CIBA Corning Diagnostics Corp.
CC       APPLICANT:  Institute of Virology
CC       TITLE OF INVENTION:  MN Gene and Protein
CC       NUMBER OF SEQUENCES:  4
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Leona L. Lauder
CC         STREET:  Steuart Street Tower, 18th Fl., One Market
CC         STREET:  Plaza
CC         CITY:  San Francisco
CC         STATE:  CA
CC         COUNTRY:  USA
CC         ZIP:  94105
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US93/02024
CC         FILING DATE:  19930308
CC         CLASSIFICATION:
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  CS PV-709-92
CC         FILING DATE:  10-MAR-1992
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US/07/964,589
CC         FILING DATE:  21-OCT-1992
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Lauder, Leona L
CC         REGISTRATION NUMBER:  30,863
CC         REFERENCE/DOCKET NUMBER:  D-0021
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  415-777-9257
CC         TELEFAX:  415-543-4219
CC     INFORMATION FOR SEQ ID NO:  2:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  429 amino acids
CC         TYPE:  AMINO ACID
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   429 AA; 47631 MW; 926009 CN;

  Query Match            12.1%;  Score 78;  DB 12;  Length 429;
  Best Local Similarity  36.0%;  Pred. No. 1.33e+01;
  Matches     9;  Conservative   12;  Mismatches   2;  Indels   2;  Gaps   2;

Db    159 RQWPQCATD-PASWAR-DGSGSRAG 181
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Qy     58 QRWSPCPSNLAAPWGRWDGSSPSPG 82


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ID   US-08-425-061-24     STANDARD;     PRT;   1852 AA.
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AC   xxxxxx
XX
DT   01-JAN-1900
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DE   Sequence 24, Application US/08425061.
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CC    Sequence 24, Application US/08425061
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CC    Patent No. 5622829
CC     GENERAL INFORMATION:
CC       APPLICANT:  KING, Mary-Claire
CC       APPLICANT:  FRIEDMAN, Lori
CC       APPLICANT:  OSTERMEYER, Beth
CC       APPLICANT:  ROWELL, Sarah
CC       APPLICANT:  LYNCH, Eric
CC       APPLICANT:  SZABO, Csilla
CC       APPLICANT:  LEE, Ming
CC       TITLE OF INVENTION:  GENETIC MARKERS FOR BREAST AND OVARIAN
CC       TITLE OF INVENTION:  CANCER
CC       NUMBER OF SEQUENCES:  24
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT
CC         STREET:  4 Embarcadero Center, Suite 3400
CC         CITY:  San Francisco
CC         STATE:  California
CC         COUNTRY:  USA
CC         ZIP:  94111-4187
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.30
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/425,061
CC         FILING DATE:
CC         CLASSIFICATION:  435
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  OSMAN, Richard A
CC         REGISTRATION NUMBER:  36,627
CC         REFERENCE/DOCKET NUMBER:  A-59563-3/DJB/RAO
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (415) 494-8700
CC         TELEFAX:  (415) 494-8771
CC         TELEX:  910 277299
CC     INFORMATION FOR SEQ ID NO:  24:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  1852 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   1852 AA; 206370 MW; 17856000 CN;

  Query Match           11.5%;  Score 74;  DB 7;  Length 1852;
  Best Local Similarity  32.8%;  Pred. No. 2.73e+01;
  Matches    22;  Conservative   10;  Mismatches  28;  Indels   7;  Gaps   6;

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Db   1503 S-LDDRW 1508
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RESULT    5
ID   PCT-US95-10220-2     STANDARD;     PRT;   1863 AA.
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AC   xxxxxx
XX
DT   01-JAN-1900
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DE   Sequence 2, Application PC/TUS9510220.
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CC    Sequence 2, Application PC/TUS9510220
CC     GENERAL INFORMATION:
CC       APPLICANT:  Skolnick, Mark H.
CC       APPLICANT:  Goldgar, David E.
CC       APPLICANT:  Miki, Yoshio
CC       APPLICANT:  Swenson, Jeff
CC       APPLICANT:  Kamb, Alexander
CC       APPLICANT:  Harshman, Keith D.
CC       APPLICANT:  Shattuck-Eidens, Donna M.
CC       APPLICANT:  Tavtigian, Sean V.
CC       APPLICANT:  Wiseman, Roger W.
CC       APPLICANT:  Futreal, P. Andrew
CC       TITLE OF INVENTION:  Method for Diagnosing a
CC       TITLE OF INVENTION:  Predisposition for Breast and Ovarian Cancer
CC       NUMBER OF SEQUENCES:  85
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Venable, Baetjer, Howard & Civiletti, LLP
CC         STREET:  1201 New York Avenue, N.W., Suite 1000
CC         CITY:  Washington
CC         STATE:  DC
CC         COUNTRY:  USA
CC         ZIP:  20005
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.30
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/10220
CC         FILING DATE:
CC         CLASSIFICATION:
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US
CC         FILING DATE:  07-JUN-1995
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/409,305
CC         FILING DATE:  24-MAR-1995
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CC         APPLICATION NUMBER:  US 08/348,824
CC         FILING DATE:  29-NOV-1994
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08-308,104
CC         FILING DATE:  16-SEP-1994
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CC         APPLICATION NUMBER:  US 08/300,266
CC         FILING DATE:  02-SEP-1994
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/289,221
CC         FILING DATE:  12-AUG-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Ihnen, Jeffrey L.
CC         REGISTRATION NUMBER:  28,957
CC         REFERENCE/DOCKET NUMBER:  24884-109347
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-962-4810
CC         TELEFAX:  202-962-8300
CC     INFORMATION FOR SEQ ID NO:  2:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH: 1863 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   1863 AA; 207719 MW; 18114269 CN;

  Query Match           11.5%;  Score 74;  DB 14;  Length 1863;
  Best Local Similarity  32.8%;  Pred. No. 2.73e+01;
  Matches    22;  Conservative   10;  Mismatches  28;  Indels   7;  Gaps   6;

Db   1445 PEQSTSEKAVLTSQKSSEYPISQNPEGLSADKFEVSADSSTS-KNKEP-GVERSSPSKCP 1502
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Qy      9 PPRQECGKPALPSA-SEE-QVAQDMEGFSAATFFTTISRNRRLKGRPPLPTQRWSP--CP 64

Db   1503 S-LDDRW 1508
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Qy     65 SNLAAPW 71


RESULT    6
ID   PCT-US95-10202-2     STANDARD;     PRT;   1863 AA.
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AC   xxxxxx
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DT   01-JAN-1900
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DE   Sequence 2, Application PC/TUS9510202.
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CC    Sequence 2, Application PC/TUS9510202
CC     GENERAL INFORMATION:
CC       APPLICANT:  Shattuck-Eidens, Donna M.
CC       APPLICANT:  Simard, Jacques
CC       APPLICANT:  Emi, Mitsuru
CC       APPLICANT:  Nakamura, Yusuke
CC       APPLICANT:  Durocher, Francine
CC       TITLE OF INVENTION:  In Vivo Mutations and Polymorphisms
CC       TITLE OF INVENTION:  in the 17q-Linked Breast and Ovarian Cancer
CC       TITLE OF INVENTION:  Susceptibility Gene
CC       NUMBER OF SEQUENCES:  85
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Venable, Baetjer, Howard & Civiletti, LLP
CC         STREET:  1201 New York Avenue, N.W., Suite 1000
CC         CITY:  Washington
CC         STATE:  DC
CC         COUNTRY:  USA
CC         ZIP:  20005
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.30
CC       CURRENT APPLICATION DATA:
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CC         FILING DATE:
CC         CLASSIFICATION:
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US
CC         FILING DATE:  07-JUN-1995
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/409,305
CC         FILING DATE:  24-MAR-1995
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/348,824
CC         FILING DATE:  29-NOV-1994
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08-308,104
CC         FILING DATE:  16-SEP-1994
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/300,266
CC         FILING DATE:  02-SEP-1994
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/289,221
CC         FILING DATE:  12-AUG-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Ihnen, Jeffrey L.
CC         REGISTRATION NUMBER:  28,957
CC         REFERENCE/DOCKET NUMBER:  24884-109347
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-962-4810
CC         TELEFAX:  202-962-8300
CC     INFORMATION FOR SEQ ID NO:  2:
CC       SEQUENCE CHARACTERISTICS:
CC        LENGTH: 1863 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   1863 AA; 207719 MW; 18114269 CN;

  Query Match           11.5%;  Score 74;  DB 14;  Length 1863;
  Best Local Similarity  32.8%;  Pred. No. 2.73e+01;
  Matches    22;  Conservative   10;  Mismatches  28;  Indels   7;  Gaps   6;

Db   1445 PEQSTSEKAVLTSQKSSEYPISQNPEGLSADKFEVSADSSTS-KNKEP-GVERSSPSKCP 1502
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Qy      9 PPRQECGKPALPSA-SEE-QVAQDMEGFSAATFFTTISRNRRLKGRPPLPTQRWSP--CP 64

Db   1503 S-LDDRW 1508
          | |   |
Qy     65 SNLAAPW 71


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ID   US-08-483-553-2     STANDARD;     PRT;   1863 AA.
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AC   xxxxxx
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DT   01-JAN-1900
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DE   Sequence 2, Application US/08483553.
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CC    Sequence 2, Application US/08483553
CC    Patent No. 5709999
CC     GENERAL INFORMATION:
CC       APPLICANT:  Skolnick, Mark H.
CC       APPLICANT:  Goldgar, David E.
CC       APPLICANT:  Miki, Yoshio
CC       APPLICANT:  Swenson, Jeff
CC       APPLICANT:  Kamb, Alexander
CC       APPLICANT:  Harshman, Keith D.
CC       APPLICANT:  Shattuck-Eidens, Donna M.
CC       APPLICANT:  Tavtigian, Sean V.
CC       APPLICANT:  Wiseman, Roger W.
CC       APPLICANT:  Futreal, P. Andrew
CC       TITLE OF INVENTION:  17q-Linked Breast and Ovarian Cancer
CC       TITLE OF INVENTION:  Susceptibility Gene
CC       NUMBER OF SEQUENCES:  85
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Venable, Baetjer, Howard & Civiletti, LLP
CC         STREET:  1201 New York Avenue, N.W., Suite 1000
CC         CITY:  Washington
CC         STATE:  DC
CC         COUNTRY:  USA
CC         ZIP:  20005
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.30
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/483,553
CC         FILING DATE:
CC         CLASSIFICATION:  435
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/409,305
CC         FILING DATE:  24-MAR-1995
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/348,824
CC         FILING DATE:  29-NOV-1994
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/308,104
CC         FILING DATE:  16-SEP-1994
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/300,266
CC         FILING DATE:  02-SEP-1994
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/289,221
CC         FILING DATE:  12-AUG-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Ihnen, Jeffrey L.
CC         REGISTRATION NUMBER:  28,957
CC         REFERENCE/DOCKET NUMBER:  24884-109347
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-962-4810
CC         TELEFAX:  202-962-8300
CC     INFORMATION FOR SEQ ID NO:  2:
CC       SEQUENCE CHARACTERISTICS:
CC        LENGTH: 1863 amino acids
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CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   1863 AA; 207719 MW; 18114269 CN;

  Query Match           11.5%;  Score 74;  DB 8;  Length 1863;
  Best Local Similarity  32.8%;  Pred. No. 2.73e+01;
  Matches    22;  Conservative   10;  Mismatches  28;  Indels   7;  Gaps   6;

Db   1445 PEQSTSEKAVLTSQKSSEYPISQNPEGLSADKFEVSADSSTS-KNKEP-GVERSSPSKCP 1502
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Qy      9 PPRQECGKPALPSA-SEE-QVAQDMEGFSAATFFTTISRNRRLKGRPPLPTQRWSP--CP 64

Db   1503 S-LDDRW 1508
          | |   |
Qy     65 SNLAAPW 71


RESULT    8
ID   US-08-598-591-2     STANDARD;     PRT;   1863 AA.
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AC   xxxxxx
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DT   01-JAN-1900
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DE   Sequence 2, Application US/08598591.
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CC    Sequence 2, Application US/08598591
CC    Patent No. 5654155
CC     GENERAL INFORMATION:
CC       APPLICANT:  Allen, Antonette C.
CC       APPLICANT:  Alvares, Christopher P.
CC       APPLICANT:  Critz, Brenda S.
CC       APPLICANT:  Murphy Patricia D.
CC       APPLICANT:  Olson, Sheri J.
CC       APPLICANT:  Schelter, Denise B.
CC       APPLICANT:  Zeng, Bin
CC       TITLE OF INVENTION:  A Consensus Sequence of the Human BRCA1 Gene
CC    Patent No. 5654155
CC       NUMBER OF SEQUENCES:  74
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  BURNS, DOANE, SWECKER & MATHIS
CC         STREET:  699 Prince St.
CC         CITY:  Alexandria
CC         STATE:  VA
CC         COUNTRY:  USA
CC         ZIP:  22314
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.30
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/598,591
CC         FILING DATE:  herewith
CC         CLASSIFICATION:  435
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Swecker, Robert S.
CC         REGISTRATION NUMBER:  19,885
CC         REFERENCE/DOCKET NUMBER:  020160-282
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  703-836-6620
CC         TELEFAX:  703-836-2021
CC     INFORMATION FOR SEQ ID NO:  2:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  1863 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  not relevant
CC         TOPOLOGY:  not relevant
CC       MOLECULE TYPE:  protein
CC       ORIGINAL SOURCE:
CC         ORGANISM:  Homo sapiens
CC         STRAIN:  BRCA1
CC       POSITION IN GENOME:
CC         CHROMOSOME/SEGMENT:  17
CC         MAP POSITION:  17q21
SQ   SEQUENCE   1863 AA; 207661 MW; 18087089 CN;

  Query Match           11.5%;  Score 74;  DB 7;  Length 1863;
  Best Local Similarity  32.8%;  Pred. No. 2.73e+01;
  Matches    22;  Conservative   10;  Mismatches  28;  Indels   7;  Gaps   6;

Db   1445 PEQSTSEKAVLTSQKSSEYPISQNPEGLSADKFEVSADSSTS-KNKEP-GVERSSPSKCP 1502
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Qy      9 PPRQECGKPALPSA-SEE-QVAQDMEGFSAATFFTTISRNRRLKGRPPLPTQRWSP--CP 64

Db   1503 S-LDDRW 1508
          | |   |
Qy     65 SNLAAPW 71


RESULT    9
ID   US-08-487-002-2     STANDARD;     PRT;   1863 AA.
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AC   xxxxxx
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DT   01-JAN-1900
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DE   Sequence 2, Application US/08487002.
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CC    Sequence 2, Application US/08487002
CC    Patent No. 5710001
CC     GENERAL INFORMATION:
CC       APPLICANT:  Shattuck-Eidens, Donna M.
CC       APPLICANT:  Simard, Jacques
CC       APPLICANT:  Emi, Mitsuru
CC       APPLICANT:  Nakamura, Yusuke
CC       APPLICANT:  Durocher, Francine
CC       TITLE OF INVENTION:  17q-Linked Breast and Ovarian Cancer
CC       TITLE OF INVENTION:  Susceptibility Gene
CC       NUMBER OF SEQUENCES:  85
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Venable, Baetjer, Howard & Civiletti, LLP
CC         STREET:  1201 New York Avenue, N.W., Suite 1000
CC         CITY:  Washington
CC         STATE:  DC
CC         COUNTRY:  USA
CC         ZIP:  20005
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.30
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CC         FILING DATE:
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CC         APPLICATION NUMBER:  US 08/409,305
CC         FILING DATE:  24-MAR-1995
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/348,824
CC         FILING DATE:  29-NOV-1994
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/308,104
CC         FILING DATE:  16-SEP-1994
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/300,266
CC         FILING DATE:  02-SEP-1994
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/289,221
CC         FILING DATE:  12-AUG-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Ihnen, Jeffrey L.
CC         REGISTRATION NUMBER:  28,957
CC         REFERENCE/DOCKET NUMBER:  24884-109347
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CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-962-4810
CC         TELEFAX:  202-962-8300
CC     INFORMATION FOR SEQ ID NO:  2:
CC       SEQUENCE CHARACTERISTICS:
CC        LENGTH: 1863 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   1863 AA; 207719 MW; 18114269 CN;

  Query Match           11.5%;  Score 74;  DB 8;  Length 1863;
  Best Local Similarity  32.8%;  Pred. No. 2.73e+01;
  Matches    22;  Conservative   10;  Mismatches  28;  Indels   7;  Gaps   6;

Db   1445 PEQSTSEKAVLTSQKSSEYPISQNPEGLSADKFEVSADSSTS-KNKEP-GVERSSPSKCP 1502
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Qy      9 PPRQECGKPALPSA-SEE-QVAQDMEGFSAATFFTTISRNRRLKGRPPLPTQRWSP--CP 64

Db   1503 S-LDDRW 1508
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Qy     65 SNLAAPW 71


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ID   PCT-US95-10203-2     STANDARD;     PRT;   1863 AA.
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AC   xxxxxx
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DT   01-JAN-1900
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DE   Sequence 2, Application PC/TUS9510203.
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CC    Sequence 2, Application PC/TUS9510203
CC     GENERAL INFORMATION:
CC       APPLICANT:  Skolnick, Mark H.
CC       APPLICANT:  Goldgar, David E.
CC       APPLICANT:  Miki, Yoshio
CC       APPLICANT:  Swenson, Jeff
CC       APPLICANT:  Kamb, Alexander
CC       APPLICANT:  Harshman, Keith D.
CC       APPLICANT:  Shattuck-Eidens, Donna M.
CC       APPLICANT:  Tavtigian, Sean V.
CC       APPLICANT:  Wiseman, Roger W.
CC       APPLICANT:  Futreal, P. Andrew
CC       TITLE OF INVENTION:  17q-Linked Breast and Ovarian Cancer
CC       TITLE OF INVENTION:  Susceptibility Gene
CC       NUMBER OF SEQUENCES:  85
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Venable, Baetjer, Howard & Civiletti, LLP
CC         STREET:  1201 New York Avenue, N.W., Suite 1000
CC         CITY:  Washington
CC         STATE:  DC
CC         COUNTRY:  USA
CC         ZIP:  20005
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.30
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CC         APPLICATION NUMBER:  PCT/US95/10203
CC         FILING DATE:
CC         CLASSIFICATION:
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US
CC         FILING DATE:  07-JUN-1995
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/409,305
CC         FILING DATE:  24-MAR-1995
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/348,824
CC         FILING DATE:  29-NOV-1994
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08-308,104
CC         FILING DATE:  16-SEP-1994
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/300,266
CC         FILING DATE:  02-SEP-1994
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/289,221
CC         FILING DATE:  12-AUG-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Ihnen, Jeffrey L.
CC         REGISTRATION NUMBER:  28,957
CC         REFERENCE/DOCKET NUMBER:  24884-109347
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-962-4810
CC         TELEFAX:  202-962-8300
CC     INFORMATION FOR SEQ ID NO:  2:
CC       SEQUENCE CHARACTERISTICS:
CC        LENGTH: 1863 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   1863 AA; 207719 MW; 18114269 CN;

  Query Match           11.5%;  Score 74;  DB 14;  Length 1863;
  Best Local Similarity  32.8%;  Pred. No. 2.73e+01;
  Matches    22;  Conservative   10;  Mismatches  28;  Indels   7;  Gaps   6;

Db   1445 PEQSTSEKAVLTSQKSSEYPISQNPEGLSADKFEVSADSSTS-KNKEP-GVERSSPSKCP 1502
          | :    |: | |  | |  ::|: ||:||  |  :   :   | : |   :| ||  ||
Qy      9 PPRQECGKPALPSA-SEE-QVAQDMEGFSAATFFTTISRNRRLKGRPPLPTQRWSP--CP 64

Db   1503 S-LDDRW 1508
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Qy     65 SNLAAPW 71


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ID   US-08-480-784-2     STANDARD;     PRT;   1863 AA.
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AC   xxxxxx
XX
DT   01-JAN-1900
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DE   Sequence 2, Application US/08480784.
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CC    Sequence 2, Application US/08480784
CC    Patent No. 5693473
CC     GENERAL INFORMATION:
CC       APPLICANT:  Skolnick, Mark H.
CC       APPLICANT:  Goldgar, David E.
CC       APPLICANT:  Miki, Yoshio
CC       APPLICANT:  Swenson, Jeff
CC       APPLICANT:  Kamb, Alexander
CC       APPLICANT:  Harshman, Keith D.
CC       APPLICANT:  Shattuck-Eidens, Donna M.
CC       APPLICANT:  Tavtigian, Sean V.
CC       APPLICANT:  Wiseman, Roger W.
CC       APPLICANT:  Futreal, P. Andrew
CC       TITLE OF INVENTION:  17q-Linked Breast and Ovarian Cancer
CC       TITLE OF INVENTION:  Susceptibility Gene
CC       NUMBER OF SEQUENCES:  85
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Venable, Baetjer, Howard & Civiletti, LLP
CC         STREET:  1201 New York Avenue, N.W., Suite 1000
CC         CITY:  Washington
CC         STATE:  DC
CC         COUNTRY:  USA
CC         ZIP:  20005
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
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CC         SOFTWARE:  PatentIn Release #1.0, Version #1.30
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/480,784
CC         FILING DATE:
CC         CLASSIFICATION:  435
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/409,305
CC         FILING DATE:  24-MAR-1995
CC       PRIOR APPLICATION DATA:
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CC         FILING DATE:  29-NOV-1994
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/308,104
CC         FILING DATE:  16-SEP-1994
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/300,266
CC         FILING DATE:  02-SEP-1994
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/289,221
CC         FILING DATE:  12-AUG-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Ihnen, Jeffrey L.
CC         REGISTRATION NUMBER:  28,957
CC         REFERENCE/DOCKET NUMBER:  24884-109347
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-962-4810
CC         TELEFAX:  202-962-8300
CC     INFORMATION FOR SEQ ID NO:  2:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH: 1863 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   1863 AA; 207719 MW; 18114269 CN;

  Query Match           11.5%;  Score 74;  DB 7;  Length 1863;
  Best Local Similarity  32.8%;  Pred. No. 2.73e+01;
  Matches    22;  Conservative   10;  Mismatches  28;  Indels   7;  Gaps   6;

Db   1445 PEQSTSEKAVLTSQKSSEYPISQNPEGLSADKFEVSADSSTS-KNKEP-GVERSSPSKCP 1502
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Qy      9 PPRQECGKPALPSA-SEE-QVAQDMEGFSAATFFTTISRNRRLKGRPPLPTQRWSP--CP 64

Db   1503 S-LDDRW 1508
          | |   |
Qy     65 SNLAAPW 71


RESULT   12
ID   US-08-425-061-16     STANDARD;     PRT;   1863 AA.
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AC   xxxxxx
XX
DT   01-JAN-1900
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DE   Sequence 16, Application US/08425061.
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CC    Sequence 16, Application US/08425061
CC    Patent No. 5622829
CC     GENERAL INFORMATION:
CC       APPLICANT:  KING, Mary-Claire
CC       APPLICANT:  FRIEDMAN, Lori
CC       APPLICANT:  OSTERMEYER, Beth
CC       APPLICANT:  ROWELL, Sarah
CC       APPLICANT:  LYNCH, Eric
CC       APPLICANT:  SZABO, Csilla
CC       APPLICANT:  LEE, Ming
CC       TITLE OF INVENTION:  GENETIC MARKERS FOR BREAST AND OVARIAN
CC       TITLE OF INVENTION:  CANCER
CC       NUMBER OF SEQUENCES:  24
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT
CC         STREET:  4 Embarcadero Center, Suite 3400
CC         CITY:  San Francisco
CC         STATE:  California
CC         COUNTRY:  USA
CC         ZIP:  94111-4187
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.30
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/425,061
CC         FILING DATE:
CC         CLASSIFICATION:  435
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  OSMAN, Richard A
CC         REGISTRATION NUMBER:  36,627
CC         REFERENCE/DOCKET NUMBER:  A-59563-3/DJB/RAO
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (415) 494-8700
CC         TELEFAX:  (415) 494-8771
CC         TELEX:  910 277299
CC     INFORMATION FOR SEQ ID NO:  16:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  1863 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   1863 AA; 207673 MW; 18114452 CN;

  Query Match           11.5%;  Score 74;  DB 7;  Length 1863;
  Best Local Similarity  32.8%;  Pred. No. 2.73e+01;
  Matches    22;  Conservative   10;  Mismatches  28;  Indels   7;  Gaps   6;

Db   1445 PEQSTSEKAVLTSQKSSEYPISQNPEGLSADKFEVSADSSTS-KNKEP-GVERSSPSKCP 1502
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Qy      9 PPRQECGKPALPSA-SEE-QVAQDMEGFSAATFFTTISRNRRLKGRPPLPTQRWSP--CP 64

Db   1503 S-LDDRW 1508
          | |   |
Qy     65 SNLAAPW 71


RESULT   13
ID   5422248-4     STANDARD;     PRT;   58 AA.
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DT   01-JAN-1900
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CC   Patent No. 5422248
CC       APPLICANT: SMITH, CRAIG A.;LARSEN, ALF D.;SIMS, JOHN E.;
CC   BENSON, CURTIS M.
CC       TITLE OF INVENTION: DNA SEQUENCES ENCODING GRANULOCYTE-COLONY
CC   STIMULATING FACTOR RECEPTORS
CC       NUMBER OF SEQUENCES: 6
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/6,183
CC         FILING DATE: 15-JAN-1993
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER: 587,329
CC         FILING DATE: 24-SEP-1990
CC         APPLICATION NUMBER: 522,952
CC         FILING DATE: 03-APR-1990
CC         APPLICATION NUMBER: 416,306
CC         FILING DATE: 03-OCT-1989
CC         APPLICATION NUMBER: 412,816
CC         FILING DATE: 26-SEP-1989
CC   SEQ ID NO:4:
CC         LENGTH: 53
SQ   SEQUENCE   58 AA; 6175 MW; 22864 CN;
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  Query Match           11.4%;  Score 73;  DB 1;  Length 53;
  Best Local Similarity  36.0%;  Pred. No. 3.26e+01;
  Matches     9;  Conservative    8;  Mismatches   7;  Indels   1;  Gaps   1;

Db      30 RASPPAPSPMRTSGSSR-PAPWGPW 53
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Qy      50 KGRPPLPTQRWSPCPSNLAAPWGRW 74


RESULT   14
ID   PCT-US95-10398-175     STANDARD;     PRT;   191 AA.
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AC   xxxxxx
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DT   01-JAN-1900
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DE   Sequence 175, Application PC/TUS9510398.
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CC    Sequence 175, Application PC/TUS9510398
CC     GENERAL INFORMATION:
CC       APPLICANT:  BUKH, J., MILLER, R.H. AND
CC       APPLICANT:  PURCELL, R.H.
CC       TITLE OF INVENTION:  NUCLEOTIDE AND DEDUCED
CC       TITLE OF INVENTION:  AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
CC       TITLE OF INVENTION:  CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
CC       TITLE OF INVENTION:  AND THE USE OF REAGENTS DERIVED FROM THESE
CC       TITLE OF INVENTION:  SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
CC       NUMBER OF SEQUENCES:  263
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  MORGAN & FINNEGAN
CC         STREET:  345 PARK AVENUE
CC         CITY:  NEW YORK
CC         STATE:  NEW YORK
CC         COUNTRY:  USA
CC         ZIP:  10154
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  FLOPPY DISK
CC         COMPUTER:  IBM PC COMPATIBLE
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  WORDPERFECT 5.1
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/10398
CC         FILING DATE:  15-AUG-1995
CC         CLASSIFICATION:
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/086,428
CC         FILING DATE:  29 JUNE 1993
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/290/665
CC         FILING DATE:  15 AUGUST 1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  RICHARD W. BORK
CC         REGISTRATION NUMBER:  36,459
CC         REFERENCE/DOCKET NUMBER:  2026-4116
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (212) 758-4800
CC         TELEFAX:  (212) 751-6849
CC         TELEX:  421792
CC     INFORMATION FOR SEQ ID NO:  175:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  191 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  unknown
CC         TOPOLOGY:  unknown
CC       ORIGINAL SOURCE:
CC         ORGANISM:  homosapiens
CC         INDIVIDUAL ISOLATE:  P8
SQ   SEQUENCE   191 AA; 20708 MW; 183619 CN;

  Query Match           11.4%;  Score 73;  DB 14;  Length 191;
  Best Local Similarity  27.3%;  Pred. No. 3.26e+01;
  Matches     9;  Conservative   11;  Mismatches  11;  Indels   2;  Gaps   2;

Db      65 IPKARRPEGRAWAQPGHPWPLYANE-GLGWAGW 96
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Qy      43 ISRNRRLKGRP-PLPTQRWSPCPSNLAAPWGRW 74


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ID   US-08-818-823-6     STANDARD;     PRT;   902 AA.
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AC   xxxxxx
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DT   01-JAN-1900
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DE   Sequence 6, Application US/08818823.
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CC    Sequence 6, Application US/08818823
CC    Patent No. 5708158
CC     GENERAL INFORMATION:
CC       APPLICANT:  HOEY, Timothy
CC       TITLE OF INVENTION:  NUCLEAR FACTORS AND BINDING ASSAY
CC       NUMBER OF SEQUENCES:  18
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT
CC         STREET:  4 Embarcadero Center, Suite 3400
CC         CITY:  San Francisco
CC         STATE:  California
CC         COUNTRY:  USA
CC         ZIP:  94111
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.30
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/818,823
CC         FILING DATE:  14-MAR-1997
CC         CLASSIFICATION:  536
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/396,479
CC         FILING DATE:  02-MAR-1995
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Osman, Richard A
CC         REGISTRATION NUMBER:  36,627
CC         REFERENCE/DOCKET NUMBER:  A-59450-1/RAO
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (415) 494-8700
CC         TELEFAX:  (415) 494-8771
CC         TELEX:  210 277299
CC     INFORMATION FOR SEQ ID NO:  6:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  902 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   902 AA; 95472 MW; 4420897 CN;

  Query Match           11.4%;  Score 73;  DB 8;  Length 902;
  Best Local Similarity  45.2%;  Pred. No. 3.26e+01;
  Matches    14;  Conservative    5;  Mismatches  10;  Indels   2;  Gaps   2;

Db     213 SPLPSPRASPRPWTPEDPWSLY-GPSPG-GR 241
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Qy      53 PPLPTQRWSPCPSNLAAPWGRWDGSSPSPGR 83


Search completed: Wed May  6 09:41:22 1998
Job time : 10 secs.
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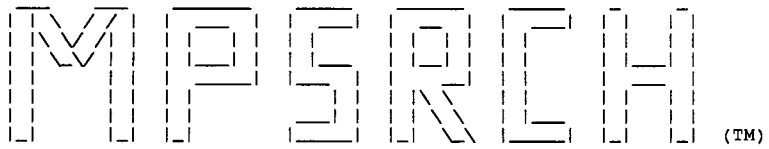

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MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Run on: Wed May 6 09:43:42 1998; MasPar time 3.57 Seconds
336.920 Million cell updates/sec

Tabular output not generated.

Title: >US-08-320-157-22
Description: (1-210) from US08320157.pep
Perfect Score: 1554
Sequence: 1 MASGQGPGPPRQECGEPALP.....LVVLGVVLLGQFVVRRFFKS 210

Scoring table: PAM 150
Gap 11

Searched: 62627 seqs, 5720858 residues

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database: a-issued
1:backl 2:51 3:52 4:53 5:54 6:55 7:56 8:57 9:PCT90
10:PCT91 11:PCT92 12:PCT93 13:PCT94 14:PCT95 15:PCT96

Statistics: Mean 30.519; Variance 143.876; scale 0.212

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description	Pred. No.
1	1541	99.2	211	7	US-08-321-	Sequence 16, Applicati	1.46e-126
2	453	29.2	57	7	US-08-321-	Sequence 15, Applicati	3.18e-29
3	378	24.3	54	7	US-08-321-	Sequence 21, Applicati	9.68e-23
4	347	22.3	49	7	US-08-321-	Sequence 25, Applicati	4.38e-20
5	260	16.7	36	15	PCT-US96-0	Sequence 14, Applicati	9.58e-13
6	260	16.7	36	7	US-08-440-	Sequence 14, Applicati	9.58e-13
7	258	16.6	190	7	US-08-081-	Sequence 2, Applicatio	1.40e-12
8	258	16.6	190	13	PCT-US94-0	Sequence 2, Applicatio	1.40e-12
9	254	16.3	236	8	US-08-607-	Sequence 29, Applicati	3.02e-12
10	254	16.3	236	14	PCT-US95-0	Sequence 29, Applicati	3.02e-12
11	250	16.1	233	8	US-08-607-	Sequence 24, Applicati	6.47e-12
12	250	16.1	233	7	US-08-333-	Sequence 59, Applicati	6.47e-12
13	250	16.1	233	14	PCT-US95-0	Sequence 24, Applicati	6.47e-12
14	250	16.1	233	7	US-08-081-	Sequence 6, Applicatio	6.47e-12
15	250	16.1	233	13	PCT-US94-0	Sequence 7, Applicatio	6.47e-12
16	245	15.8	233	8	US-08-607-	Sequence 23, Applicati	1.68e-11
17	245	15.8	233	14	PCT-US95-0	Sequence 23, Applicati	1.68e-11
18	243	15.6	205	1	5459251-4	Patent No. 5459251.	2.45e-11
19	243	15.6	205	8	US-08-248-	Sequence 13, Applicati	2.45e-11
20	243	15.6	205	1	5506344-5	Patent No. 5506344.	2.45e-11
21	243	15.6	205	7	US-08-081-	Sequence 4, Applicatio	2.45e-11
22	243	15.6	205	13	PCT-US94-0	Sequence 5, Applicatio	2.45e-11
23	243	15.6	205	7	US-08-333-	Sequence 52, Applicati	2.45e-11
24	243	15.6	239	1	5506344-2	Patent No. 5506344.	2.45e-11
25	243	15.6	239	7	US-08-333-	Sequence 51, Applicati	2.45e-11
26	243	15.6	239	8	US-08-248-	Sequence 12, Applicati	2.45e-11
27	243	15.6	239	1	5459251-2	Patent No. 5459251.	2.45e-11
28	243	15.6	239	12	PCT-US93-0	Sequence 5, Applicatio	2.45e-11
29	242	15.6	239	14	PCT-US95-0	Sequence 20, Applicati	2.97e-11
30	242	15.6	239	8	US-08-607-	Sequence 20, Applicati	2.97e-11
31	239	15.4	239	8	US-08-248-	Sequence 10, Applicati	5.24e-11
32	239	15.4	239	7	US-08-112-	Sequence 10, Applicati	5.24e-11
33	236	15.2	154	5	US-08-077-	Sequence 3, Applicatio	9.26e-11
34	234	15.1	236	8	US-08-248-	Sequence 11, Applicati	1.35e-10
35	234	15.1	236	14	PCT-US95-0	Sequence 22, Applicati	1.35e-10
36	234	15.1	236	7	US-08-112-	Sequence 11, Applicati	1.35e-10
37	234	15.1	236	8	US-08-607-	Sequence 22, Applicati	1.35e-10
38	232	14.9	236	8	US-08-607-	Sequence 21, Applicati	1.97e-10
39	232	14.9	236	14	PCT-US95-0	Sequence 21, Applicati	1.97e-10
40	226	14.5	31	15	PCT-US96-0	Sequence 16, Applicati	6.13e-10
41	226	14.5	31	7	US-08-440-	Sequence 3, Applicatio	6.13e-10
42	226	14.5	31	7	US-08-440-	Sequence 16, Applicati	6.13e-10
43	226	14.5	31	15	PCT-US96-0	Sequence 3, Applicatio	6.13e-10
44	206	13.3	192	8	US-08-248-	Sequence 8, Applicatio	2.60e-08
45	206	13.3	192	7	US-08-112-	Sequence 8, Applicatio	2.60e-08

ALIGNMENTS

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AC   xxxxxx
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DT   01-JAN-1900
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DE   Sequence 16, Application US/08321071A.
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CC    Sequence 16, Application US/08321071A
CC    Patent No. 5672686
CC     GENERAL INFORMATION:
CC       APPLICANT:  CHITTENDEN, Thomas D.
CC       TITLE OF INVENTION:  APOPTOSIS RELATED PROTEIN Bcl-Y, AND METHODS
CC       TITLE OF INVENTION:  OF USE THEREOF
CC       NUMBER OF SEQUENCES:  31
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Hale and Dorr
CC         STREET:  1455 Pennsylvania Avenue, N.W.
CC         CITY:  Washington
CC         STATE:  D.C.
CC         ZIP:  20004
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/321,071A
CC         FILING DATE:  11-OCT-1994
CC         CLASSIFICATION:  514
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/10103
CC         FILING DATE:  09-AUG-1995
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/287,427
CC         FILING DATE:  09-AUG-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  WIXON, HENRY N.
CC         REGISTRATION NUMBER:  32,073
CC         REFERENCE/DOCKET NUMBER:  104322.121CIP
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-942-8400
CC         TELEFAX:  202-942-8484
CC     INFORMATION FOR SEQ ID NO:  16:
CC       SEQUENCE CHARACTERISTICS:
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CC         LENGTH:  211 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  peptide
SQ   SEQUENCE   211 AA; 23410 MW; 235207 CN;

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  Matches   209;  Conservative    1;  Mismatches   0;  Indels   1;  Gaps   1;

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          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy      1 MASGQGPGPPRQECGEPALPSASEEQVAQDTEEVFRSYVFYRHQQEQEAEGVAAPADPEM 60

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Qy     61 VTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIATSLFE 120

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          || :|||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy    121 SG-NWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAA 179

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AC   xxxxxx
XX
DT   01-JAN-1900
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DE   Sequence 15, Application US/08321071A.
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CC    Sequence 15, Application US/08321071A
CC    Patent No. 5672686
CC     GENERAL INFORMATION:
CC       APPLICANT:  CHITTENDEN, Thomas D.
CC       TITLE OF INVENTION:  APOPTOSIS RELATED PROTEIN Bcl-Y, AND METHODS
CC       TITLE OF INVENTION:  OF USE THEREOF
CC       NUMBER OF SEQUENCES:  31
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Hale and Dorr
CC         STREET:  1455 Pennsylvania Avenue, N.W.
CC         CITY:  Washington
CC         STATE:  D.C.
CC         ZIP:  20004
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/321,071A
CC         FILING DATE:  11-OCT-1994
CC         CLASSIFICATION:  514
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/10103
CC         FILING DATE:  09-AUG-1995
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/287,427
CC         FILING DATE:  09-AUG-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  WIXON, HENRY N.
CC         REGISTRATION NUMBER:  32,073
CC         REFERENCE/DOCKET NUMBER:  104322.121CIP
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-942-8400
CC         TELEFAX:  202-942-8484
CC     INFORMATION FOR SEQ ID NO:  15:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  57 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  peptide
SQ   SEQUENCE   57 AA; 6559 MW; 15838 CN;

  Query Match           29.2%;  Score 453;  DB 7;  Length 57;
  Best Local Similarity 100.0%;  Pred. No. 3.18e-29;
  Matches    54;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

Db      1 NWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGW 54
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DT   01-JAN-1900
XX
DE   Sequence 21, Application US/08321071A.
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CC    Sequence 21, Application US/08321071A
CC    Patent No. 5672686
CC     GENERAL INFORMATION:
CC       APPLICANT:  CHITTENDEN, Thomas D.
CC       TITLE OF INVENTION:  APOPTOSIS RELATED PROTEIN Bcl-Y, AND METHODS
CC       TITLE OF INVENTION:  OF USE THEREOF
CC       NUMBER OF SEQUENCES:  31
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Hale and Dorr
CC         STREET:  1455 Pennsylvania Avenue, N.W.
CC         CITY:  Washington
CC         STATE:  D.C.
CC         ZIP:  20004
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/321,071A
CC         FILING DATE:  11-OCT-1994
CC         CLASSIFICATION:  514
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/10103
CC         FILING DATE:  09-AUG-1995
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/287,427
CC         FILING DATE:  09-AUG-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  WIXON, HENRY N.
CC         REGISTRATION NUMBER:  32,073
CC         REFERENCE/DOCKET NUMBER:  104322.121CIP
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-942-8400
CC         TELEFAX:  202-942-8484
CC     INFORMATION FOR SEQ ID NO:  21:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  54 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  peptide
SQ   SEQUENCE   54 AA; 6172 MW; 15712 CN;

  Query Match           24.3%;  Score 378;  DB 7;  Length 54;
  Best Local Similarity  98.1%;  Pred. No. 9.68e-23;
  Matches    53;  Conservative    0;  Mismatches   0;  Indels   1;  Gaps   1;
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DT   01-JAN-1900
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DE   Sequence 25, Application US/08321071A.
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CC    Sequence 25, Application US/08321071A
CC    Patent No. 5672686
CC     GENERAL INFORMATION:
CC       APPLICANT:  CHITTENDEN, Thomas D.
CC       TITLE OF INVENTION:  APOPTOSIS RELATED PROTEIN Bcl-Y, AND METHODS
CC       TITLE OF INVENTION:  OF USE THEREOF
CC       NUMBER OF SEQUENCES:  31
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Hale and Dorr
CC         STREET:  1455 Pennsylvania Avenue, N.W.
CC         CITY:  Washington
CC         STATE:  D.C.
CC         ZIP:  20004
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/321,071A
CC         FILING DATE:  11-OCT-1994
CC         CLASSIFICATION:  514
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/10103
CC         FILING DATE:  09-AUG-1995
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/287,427
CC         FILING DATE:  09-AUG-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  WIXON, HENRY N.
CC         REGISTRATION NUMBER:  32,073
CC         REFERENCE/DOCKET NUMBER:  104322.121CIP
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-942-8400
CC         TELEFAX:  202-942-8484
CC     INFORMATION FOR SEQ ID NO:  25:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  49 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  peptide
SQ   SEQUENCE   49 AA; 5639 MW; 12778 CN;

  Query Match           22.3%;  Score 347;  DB 7;  Length 49;
  Best Local Similarity 100.0%;  Pred. No. 4.38e-20;
  Matches   49;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

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Qy     74 VGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIATSLFESG 122


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AC   xxxxxx
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DT   01-JAN-1900
XX
DE   Sequence 14, Application PC/TUS9606122.
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CC    Sequence 14, Application PC/TUS9606122
CC     GENERAL INFORMATION:
CC       APPLICANT:  IMMUNOGEN, INC.
CC       TITLE OF INVENTION:  NOVEL PEPTIDES AND COMPOSITIONS
CC       TITLE OF INVENTION:  WHICH MODULATE APOPTOSIS
CC       NUMBER OF SEQUENCES:  34
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Hale and Dorr
CC         STREET:  1455 Pennsylvania Avenue, N.W.
CC         CITY:  Washington
CC         STATE:  D.C.
CC         ZIP:  20004
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US96/06122
CC         FILING DATE:  HEREWITH
CC         CLASSIFICATION:
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/440,391
CC         FILING DATE:  12-MAY-1995
CC         CLASSIFICATION:
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  WIXON, HENRY N.
CC         REGISTRATION NUMBER:  32,073
CC         REFERENCE/DOCKET NUMBER:  104322.147PCT
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-942-8400
CC         TELEFAX:  202-942-8484
CC     INFORMATION FOR SEQ ID NO:  14:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  36 base pairs
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  peptide
SQ   SEQUENCE   36 AA; 4120 MW; 6096 CN;

  Query Match           16.7%;  Score 260;  DB 15;  Length 36;
  Best Local Similarity 100.0%;  Pred. No. 9.58e-13;
  Matches   36;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

Db      1 LQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHL 36
          |||||||||||||||||||||||||||||||||||
Qy     65 LQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHL 100


RESULT    6
ID   US-08-440-391-14     STANDARD;     PRT;   36 AA.
XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 14, Application US/08440391.
XX
CC    Sequence 14, Application US/08440391
CC    Patent No. 5656725
CC     GENERAL INFORMATION:
CC       APPLICANT:  CHITTENDEN, Thomas D.; and
CC       APPLICANT:  LUTZ, Robert J.
CC       TITLE OF INVENTION:  NOVEL PEPTIDES AND COMPOSITIONS WHICH
CC       TITLE OF INVENTION:  MODULATE APOPTOSIS
CC       NUMBER OF SEQUENCES:  34
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Hale and Dorr
CC         STREET:  1455 Pennsylvania Avenue, N.W.
```

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CC         CITY:  Washington
CC         STATE:  D.C.
CC         ZIP:  20004
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/440,391
CC         FILING DATE:  12-MAY-1995
CC         CLASSIFICATION:  435
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  WIXON, HENRY N.
CC         REGISTRATION NUMBER:  32,073
CC         REFERENCE/DOCKET NUMBER:  104322.147
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  202-942-8400
CC         TELEFAX:  202-942-8484
CC     INFORMATION FOR SEQ ID NO:  14:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  36 base pairs
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  peptide
SQ   SEQUENCE   36 AA; 4120 MW; 6096 CN;

  Query Match           16.7%;  Score 260;  DB 7;  Length 36;
  Best Local Similarity 100.0%;  Pred. No. 9.58e-13;
  Matches   36;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

Db      1 LQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHL 36
          |||||||||||||||||||||||||||||||||||
Qy     65 LQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHL 100


RESULT    7
ID   US-08-081-448-2     STANDARD;     PRT;   190 AA.
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AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 2, Application US/08081448.
XX
CC    Sequence 2, Application US/08081448
CC    Patent No. 5646008
CC     GENERAL INFORMATION:
CC       APPLICANT:  Thompson, Craig B.
CC       APPLICANT:  Boise, Lawrence H.
CC       TITLE OF INVENTION:  Vertebrate Apoptosis Gene:
CC       TITLE OF INVENTION:  Compositions and Methods
CC       NUMBER OF SEQUENCES:  8
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Arnold, White & Durkee
CC         STREET:  321 No. 5646008th Clark Street, Suite 800
CC         CITY:  Chicago
CC         STATE:  IL
CC         COUNTRY:  USA
CC         ZIP:  60610
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/081,448
CC         FILING DATE:  19930622
CC         CLASSIFICATION:  424
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  No. 5646008thrup, Thomas E.
CC         REGISTRATION NUMBER:  33,268
CC         REFERENCE/DOCKET NUMBER:  ARCD090
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  312-744-0090
CC         TELEFAX:  312-755-4489
CC     INFORMATION FOR SEQ ID NO:  2:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  190 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   190 AA; 21467 MW; 192890 CN;

  Query Match           16.6%;  Score 258;  DB 7;  Length 190;
  Best Local Similarity 28.2%;  Pred. No. 1.40e-12;
  Matches   37;  Conservative   32;  Mismatches  59;  Indels   3;  Gaps   3;

Db     60 VVNGATVHRSSLEVHEIVRASDVRQALRDAGDEFELRYRRAFSDLTSQLHITPGTAYQSF 119
          |   |     :| ::     ::| : |   ||::: ||   |  :  :|: |:  ||: |
Qy     52 VAAPADPEMVTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYF 111

Db    120 EQVVNELFHDGVNWGRIVAFFSFGGALCVESVDKEMRVLVGRIVSWMTTYLTDH-LDPWI 178
            :   ||  | ||||:||:::|| | :   :  :  ::|::   :  ::  | :  ||
Qy    112 TKIATSLFESG-NWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCIARWI 170

Db    179 QENGGWVRTAL 189
           : |||| :||
Qy    171 AQRGGWV-AAL 180


RESULT    8
ID   PCT-US94-07089-2     STANDARD;     PRT;   190 AA.
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AC   xxxxxx
XX
DT   01-JAN-1900
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DE   Sequence 2, Application PC/TUS9407089.
XX
CC    Sequence 2, Application PC/TUS9407089
CC     GENERAL INFORMATION:
CC       APPLICANT:
CC       TITLE OF INVENTION:  Vertebrate Apoptosis Gene:
CC       TITLE OF INVENTION:  Compositions and Methods
CC       NUMBER OF SEQUENCES:  9
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Arnold, White & Durkee
CC         STREET:  P.O. Box 4433
CC         CITY:  Houston
CC         STATE:  TX
CC         COUNTRY:  United States of America
CC         ZIP:  77210
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS, ASCII
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US94/07089
CC         FILING DATE:  CONCURRENTLY FILED
CC         CLASSIFICATION:
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/081.448
CC         FILING DATE:  22 JUNE 1993
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  PARKER, David L.
CC         REGISTRATION NUMBER:  32,165
CC         REFERENCE/DOCKET NUMBER:  ARCD090
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  512-320-7200
CC         TELEFAX:  713-789-2679
CC     INFORMATION FOR SEQ ID NO:  2:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  190 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
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CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   190 AA; 21467 MW; 192890 CN;

  Query Match           16.6%;  Score 258;  DB 13;  Length 190;
  Best Local Similarity  28.2%;  Pred. No. 1.40e-12;
  Matches    37;  Conservative   32;  Mismatches  59;  Indels   3;  Gaps   3;

Db      60 VVNGATVHRSSLEVHEIVRASDVRQALRDAGDEFELRYRRAFSDLTSQLHITPGTAYQSF 119
           |   |     :| ::     ::| : |   ||::: ||   |  :  :|: |:  ||: |
Qy      52 VAAPADPEMVTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYF 111

Db     120 EQVVNELFHDGVNWGRIVAFFSFGGALCVESVDKEMRVLVGRIVSWMTTYLTDH-LDPWI 178
             :   ||  | ||||:||:::||  | :   :  :  ::|::   :  ::  | :  ||
Qy     112 TKIATSLFESG-NWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCIARWI 170

Db     179 QENGGWVRTAL 189
           : |||| :||
Qy     171 AQRGGWV-AAL 180


RESULT    9
ID   US-08-607-269-29     STANDARD;     PRT;   236 AA.
XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 29, Application US/08607269.
XX
CC    Sequence 29, Application US/08607269
CC    Patent No. 5702897
CC     GENERAL INFORMATION:
CC       APPLICANT:  Reed, John C.
CC       APPLICANT:  Sato, Takaaki
CC       TITLE OF INVENTION:  Interaction of Proteins Involved in a
CC       TITLE OF INVENTION:  Cell Death Pathway
CC       NUMBER OF SEQUENCES:  29
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Campbell and Flores
CC         STREET:  4370 La Jolla Village Drive, Suite 700
CC         CITY:  San Diego
CC         STATE:  California
CC         COUNTRY:  USA
CC         ZIP:  92122
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/607,269
CC         FILING DATE:
CC         CLASSIFICATION:  435
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/226,876
CC         FILING DATE:  13-APR-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Campbell, Cathryn A.
CC         REGISTRATION NUMBER:  31,815
CC         REFERENCE/DOCKET NUMBER:  P-LJ 9882
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (619) 535-9001
CC         TELEFAX:  (619) 535-8949
CC     INFORMATION FOR SEQ ID NO:  29:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  236 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
SQ   SEQUENCE   236 AA; 26679 MW; 437248 CN;

  Query Match           16.3%;  Score 254;  DB 8;  Length 236;
  Best Local Similarity  28.3%;  Pred. No. 3.02e-12;
  Matches    30;  Conservative   23;  Mismatches  51;  Indels   2;  Gaps   2;

Db      94 LRRAGDXFXRRYXRXFXXMXXQLHLTPXTAXXXFXXVVXELFRDGVNWGRIVAFFXFGGX 153
           |   || : |||   |  |  :|: |:  |   |  :   ||  | ||||:||:: ||
Qy      78 LAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIATSLFESG-NWGRVVALLGFGYR 136

Db     154 MCVXSVXXEMXPLVXXIAXWMTXYLNRH-LXXWIQDNGGWDXFVEL 198
           : :      :  ::  ::  :  :: :| :  || : |||   ::|
Qy     137 LALHVYQHGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAALNL 182


RESULT   10
ID   PCT-US95-04600-29     STANDARD;     PRT;   236 AA.
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AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 29, Application PC/TUS9504600.
XX
CC    Sequence 29, Application PC/TUS9504600
CC     GENERAL INFORMATION:
CC       APPLICANT:  LA JOLLA CANCER RESEARCH FOUNDATION
CC       TITLE OF INVENTION:  Interaction of Proteins Involved in
CC       TITLE OF INVENTION:  a Cell Death Pathway
CC       NUMBER OF SEQUENCES:  29
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Campbell and Flores
CC         STREET:  4370 La Jolla Village Drive, Suite 700
CC         CITY:  San Diego
CC         STATE:  California
CC         COUNTRY:  USA
CC         ZIP:  92122
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/04600
CC         FILING DATE:  12-APR-1995
CC         CLASSIFICATION:
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Imbra, Richard J.
CC         REGISTRATION NUMBER:  37,643
CC         REFERENCE/DOCKET NUMBER:  FP-LJ 1361
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (619) 535-9001
CC         TELEFAX:  (619) 535-8949
CC     INFORMATION FOR SEQ ID NO:  29:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  236 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
SQ   SEQUENCE   236 AA; 26679 MW; 437248 CN;

  Query Match           16.3%;  Score 254;  DB 14;  Length 236;
  Best Local Similarity  28.3%;  Pred. No. 3.02e-12;
  Matches    30;  Conservative   23;  Mismatches  51;  Indels   2;  Gaps   2;

Db      94 LRRAGDXFXRRYXRXFXXMXXQLHLTPXTAXXXFXXVVXELFRDGVNWGRIVAFFXFGGX 153
           |   || : |||   |  |  :|: |:  |   |  :   ||  | ||||:||:: ||
Qy      78 LAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIATSLFESG-NWGRVVALLGFGYR 136

Db     154 MCVXSVXXEMXPLVXXIAXWMTXYLNRH-LXXWIQDNGGWDXFVEL 198
           : :      :  ::  ::  :  :: :| :  || : |||   ::|
Qy     137 LALHVYQHGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAALNL 182


RESULT   11
ID   US-08-607-269-24     STANDARD;     PRT;   233 AA.
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AC   xxxxxx
XX
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DT   01-JAN-1900
XX
DE   Sequence 24, Application US/08607269.
XX
CC    Sequence 24, Application US/08607269
CC    Patent No. 5702897
CC     GENERAL INFORMATION:
CC       APPLICANT:  Reed, John C.
CC       APPLICANT:  Sato, Takaaki
CC       TITLE OF INVENTION:  Interaction of Proteins Involved in a
CC       TITLE OF INVENTION:  Cell Death Pathway
CC       NUMBER OF SEQUENCES:  29
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Campbell and Flores
CC         STREET:  4370 La Jolla Village Drive, Suite 700
CC         CITY:  San Diego
CC         STATE:  California
CC         COUNTRY:  USA
CC         ZIP:  92122
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/607,269
CC         FILING DATE:
CC         CLASSIFICATION:  435
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  US 08/226,876
CC         FILING DATE:  13-APR-1994
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Campbell, Cathryn A.
CC         REGISTRATION NUMBER:  31,815
CC         REFERENCE/DOCKET NUMBER:  P-LJ 9882
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (619) 535-9001
CC         TELEFAX:  (619) 535-8949
CC     INFORMATION FOR SEQ ID NO:  24:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  233 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
SQ   SEQUENCE   233 AA; 26063 MW; 275311 CN;

  Query Match           16.1%;  Score 250;  DB 8;  Length 233;
  Best Local Similarity  25.5%;  Pred. No. 6.47e-12;
  Matches    36;  Conservative   41;  Mismatches  60;  Indels   4;  Gaps   4;

Db     61 DSPAVNGATAHS-SSLDAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTA 119
          :: :| :::     :|  :    |: | : |   ||::: ||   |  :  :|: |:  |
Qy     48 EAEGVAAPADPEMVTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENA 107

Db    120 YQSFEQVVNELFRDGVNWGRIVAFFSFGGALCVESVDKEMQVLVSRIAAWMATYLNDH-L 178
          |: |  :   ||  | ||||:||:::||  | :   :  :  :::::  :  ::  | :
Qy    108 YEYFTKIATSLFESG-NWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCI 166

Db    179 EPWIQENGGWDTFVELYGNNA 199
            || : ||| : ::| || :
Qy    167 ARWIAQRGGWVAALNL-GNGP 186


RESULT   12
ID   US-08-333-565-59     STANDARD;     PRT;   233 AA.
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AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 59, Application US/08333565.
XX
CC    Sequence 59, Application US/08333565
CC    Patent No. 5622852
CC     GENERAL INFORMATION:
CC       APPLICANT:  KORSMEYER, Stanley J.
CC       TITLE OF INVENTION:  Bcl-x/Bcl-2 ASSOCIATED CELL DEATH
CC       TITLE OF INVENTION:  REGULATOR
CC       NUMBER OF SEQUENCES:  59
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Townsend and Townsend Khourie and Crew
CC         STREET:  379 Lytton Avenue
CC         CITY:  Palo Alto
CC         STATE:  California
CC         COUNTRY:  US
CC         ZIP:  94301
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/333,565
CC         FILING DATE:  31-OCT-1994
CC         CLASSIFICATION:  435
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Smith, William M
CC         REGISTRATION NUMBER:  30,223
CC         REFERENCE/DOCKET NUMBER:  15726A-000700
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (415) 326-2400
CC         TELEFAX:  (415) 326-2422
CC     INFORMATION FOR SEQ ID NO:  59:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  233 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  unknown
CC       MOLECULE TYPE:  peptide
SQ   SEQUENCE   233 AA; 26049 MW; 275801 CN;

  Query Match           16.1%;  Score 250;  DB 7;  Length 233;
  Best Local Similarity  25.5%;  Pred. No. 6.47e-12;
  Matches    36;  Conservative   41;  Mismatches  60;  Indels   4;  Gaps   4;

Db     61 DSPAVNGATGHS-SSLDAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTA 119
          :: :| :::     :|  :    |: | : |   ||::: ||   |  :  :|: |:  |
Qy     48 EAEGVAAPADPEMVTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENA 107

Db    120 YQSFEQVVNELFRDGVNWGRIVAFFSFGGALCVESVDKEMQVLVSRIAAWMATYLNDH-L 178
          |: |  :   ||  | ||||:||:::||  | :   :  :  :::::  :  ::  | :
Qy    108 YEYFTKIATSLFESG-NWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCI 166

Db    179 EPWIQENGGWDTFVELYGNNA 199
            || : ||| : ::| || :
Qy    167 ARWIAQRGGWVAALNL-GNGP 186


RESULT   13
ID   PCT-US95-04600-24     STANDARD;     PRT;   233 AA.
XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 24, Application PC/TUS9504600.
XX
CC    Sequence 24, Application PC/TUS9504600
CC     GENERAL INFORMATION:
CC       APPLICANT:  LA JOLLA CANCER RESEARCH FOUNDATION
CC       TITLE OF INVENTION:  Interaction of Proteins Involved in
CC       TITLE OF INVENTION:  a Cell Death Pathway
CC       NUMBER OF SEQUENCES:  29
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Campbell and Flores
CC         STREET:  4370 La Jolla Village Drive, Suite 700
CC         CITY:  San Diego
```

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CC         STATE:  California
CC         COUNTRY:  USA
CC         ZIP:  92122
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/04600
CC         FILING DATE:  12-APR-1995
CC         CLASSIFICATION:
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Imbra, Richard J.
CC         REGISTRATION NUMBER:  37,643
CC         REFERENCE/DOCKET NUMBER:  FP-LJ 1361
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (619) 535-9001
CC         TELEFAX:  (619) 535-8949
CC     INFORMATION FOR SEQ ID NO:  24:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  233 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
SQ   SEQUENCE   233 AA; 26063 MW; 275311 CN;

  Query Match           16.1%;  Score 250;  DB 14;  Length 233;
  Best Local Similarity  25.5%;  Pred. No. 6.47e-12;
  Matches    36;  Conservative   41;  Mismatches  60;  Indels   4;  Gaps   4;

Db     61 DSPAVNGATAHS-SSLDAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTA 119
          :: :| :::     :|  :    |: | : |   ||::: ||   |  :  :|: |:  |
Qy     48 EAEGVAAPADPEMVTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENA 107

Db    120 YQSFEQVVNELFRDGVNWGRIVAFFSFGGALCVESVDKEMQVLVSRIAAWMATYLNDH-L 178
          |: |  :   ||  | ||||:||:::||  | :   :  :  ::::::  :  ::  | :
Qy    108 YEYFTKIATSLFESG-NWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCI 166

Db    179 EPWIQENGGWDTFVELYGNNA 199
            || : ||| : ::| || :
Qy    167 ARWIAQRGGWVAALNL-GNGP 186


RESULT   14
ID   US-08-081-448-6     STANDARD;     PRT;   233 AA.
XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 6, Application US/08081448.
XX
CC    Sequence 6, Application US/08081448
CC    Patent No. 5646008
CC     GENERAL INFORMATION:
CC       APPLICANT:  Thompson, Craig B.
CC       APPLICANT:  Boise, Lawrence H.
CC       TITLE OF INVENTION:  Vertebrate Apoptosis Gene:
CC       TITLE OF INVENTION:  Compositions and Methods
CC       NUMBER OF SEQUENCES:  8
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Arnold, White & Durkee
CC         STREET:  321 No. 5646008th Clark Street, Suite 800
CC         CITY:  Chicago
CC         STATE:  IL
CC         COUNTRY:  USA
CC         ZIP:  60610
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/081,448
CC         FILING DATE:  19930622
CC         CLASSIFICATION:  424
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  No. 5646008thrup, Thomas E.
CC         REGISTRATION NUMBER:  33,268
CC         REFERENCE/DOCKET NUMBER:  ARCD090
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  312-744-0090
CC         TELEFAX:  312-755-4489
CC     INFORMATION FOR SEQ ID NO:  6:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  233 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   233 AA; 26063 MW; 275311 CN;

  Query Match           16.1%;  Score 250;  DB 7;  Length 233;
  Best Local Similarity  25.5%;  Pred. No. 6.47e-12;
  Matches    36;  Conservative   41;  Mismatches  60;  Indels   4;  Gaps   4;

Db     61 DSPAVNGATAHS-SSLDAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTA 119
          :: :| :::     :|  :    |: | : |   ||::: ||   |  :  :|: |:  |
Qy     48 EAEGVAAPADPEMVTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENA 107

Db    120 YQSFEQVVNELFRDGVNWGRIVAFFSFGGALCVESVDKEMQVLVSRIAAWMATYLNDH-L 178
          |: |  :   ||  | ||||:||:::||  | :   :  :  ::::::  :  ::  | :
Qy    108 YEYFTKIATSLFESG-NWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCI 166

Db    179 EPWIQENGGWDTFVELYGNNA 199
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Qy    167 ARWIAQRGGWVAALNL-GNGP 186


RESULT   15
ID   PCT-US94-07089-7     STANDARD;     PRT;   233 AA.
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AC   xxxxxx
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DT   01-JAN-1900
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DE   Sequence 7, Application PC/TUS9407089.
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CC    Sequence 7, Application PC/TUS9407089
CC     GENERAL INFORMATION:
CC       APPLICANT:
CC       TITLE OF INVENTION:  Vertebrate Apoptosis Gene:
CC       TITLE OF INVENTION:  Compositions and Methods
CC       NUMBER OF SEQUENCES:  9
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Arnold, White & Durkee
CC         STREET:  P.O. Box 4433
CC         CITY:  Houston
CC         STATE:  TX
CC         COUNTRY:  United States of America
CC         ZIP:  77210
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS, ASCII
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US94/07089
CC         FILING DATE:  CONCURRENTLY FILED
CC         CLASSIFICATION:
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:  08/081.448
CC         FILING DATE:  22 JUNE 1993
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  PARKER, David L.
CC         REGISTRATION NUMBER:  32,165
CC         REFERENCE/DOCKET NUMBER:  ARCD090
CC       TELECOMMUNICATION INFORMATION:
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CC         TELEPHONE:  512-320-7200
CC         TELEFAX:  713-789-2679
CC     INFORMATION FOR SEQ ID NO:  7:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  233 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   233 AA; 26049 MW; 275801 CN;

  Query Match           16.1%;  Score 250;  DB 13;  Length 233;
  Best Local Similarity  25.5%;  Pred. No. 6.47e-12;
  Matches    36;  Conservative   41;  Mismatches  60;  Indels   4;  Gaps   4;

Db      61 DSPAVNGATGHS-SSLDAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTA 119
           :: :| :::     :|  :    |: | : |   ||::: ||   |  :  :|: |:  |
Qy      48 EAEGVAAPADPEMVTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENA 107

Db     120 YQSFEQVVNELFRDGVNWGRIVAFFSFGGALCVESVDKEMQVLVSRIAAWMATYLNDH-L 178
           |: |  :   ||  | ||||:||:::||  | :   :  :  :::::  :  ::  | :
Qy     108 YEYFTKIATSLFESG-NWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCI 166

Db     179 EPWIQENGGWDTFVELYGNNA 199
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Qy     167 ARWIAQRGGWVAALNL-GNGP 186


Search completed: Wed May  6 09:44:02 1998
Job time : 20 secs.
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MPsrch_nn n.a. - n.a. database search, using Smith-Waterman algorithm

Run on: Wed May 6 23:50:50 1998; MasPar time 74.78 Seconds
907.151 Million cell updates/sec
Tabular output not generated.

Title: >US-08-320-157-8
Description: (1-1287) from US08320157.seq
Perfect Score: 1287
N.A. Sequence: 1 TTTTAATATAAATTAATGTG.....CCTCAAGAGTACAGAAGCTT 1287
Comp: AAAATTATATTTAATTACAC.....GGAGTTCTCATGTCTTCGAA

Scoring table: TABLE default
Gap 6

Nmatch STD : Dbase 0; Query 0

Searched: 102136 seqs, 26354296 bases x 2

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database: n-issued
1:back1 2:51 3:52 4:53 5:54 6:55 7:56 8:57 9:PCT90
10:PCT91 11:PCT92 12:PCT93 13:PCT94 14:PCT95 15:PCT96

Statistics: Mean 8.915; Variance 4.867; scale 1.832

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description	Pred. No.
	1	766	59.5	1968	7	US-08-321-	Sequence 17, Applicati	0.00e+00
	2	91	7.1	93	7	US-08-440-	Sequence 15, Applicati	3.25e-46
	3	91	7.1	93	15	PCT-US96-0	Sequence 15, Applicati	3.25e-46
	4	82	6.4	84	7	US-08-440-	Sequence 17, Applicati	9.61e-40
	5	82	6.4	84	15	PCT-US96-0	Sequence 17, Applicati	9.61e-40
	6	46	3.6	7218	7	US-08-232-	Sequence 14, Applicati	6.48e-15
	7	43	3.3	45	7	US-08-440-	Sequence 19, Applicati	5.69e-13
	8	43	3.3	45	15	PCT-US96-0	Sequence 19, Applicati	5.69e-13
	9	39	3.0	39	7	US-08-440-	Sequence 21, Applicati	1.99e-10
	10	39	3.0	39	15	PCT-US96-0	Sequence 21, Applicati	1.99e-10
	11	37	2.9	215	6	US-08-238-	Sequence 5, Applicatio	3.50e-09
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c	13	31	2.4	7218	7	US-08-232-	Sequence 14, Applicati	1.46e-05
	14	26	2.0	81	14	PCT-US95-1	Sequence 92, Applicati	1.00e-02
	15	24	1.9	74	14	PCT-US95-1	Sequence 94, Applicati	1.19e-01
	16	25	1.9	75	14	PCT-US95-1	Sequence 99, Applicati	3.48e-02
	17	25	1.9	82	14	PCT-US95-1	Sequence 97, Applicati	3.48e-02
c	18	24	1.9	105	5	US-07-865-	Sequence 13, Applicati	1.19e-01
	19	25	1.9	198	11	PCT-US92-1	Sequence 16, Applicati	3.48e-02
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c	21	24	1.9	1659	7	US-08-231-	Sequence 1, Applicatio	1.19e-01
c	22	24	1.9	1659	7	US-08-231-	Sequence 2, Applicatio	1.19e-01
	23	24	1.9	2492	12	PCT-US93-1	Sequence 13, Applicati	1.19e-01
c	24	23	1.8	66	7	US-08-471-	Sequence 144, Applicat	3.94e-01
c	25	23	1.8	69	7	US-08-471-	Sequence 142, Applicat	3.94e-01
	26	23	1.8	74	14	PCT-US95-1	Sequence 100, Applicat	3.94e-01
c	27	23	1.8	74	14	PCT-US95-1	Sequence 100, Applicat	3.94e-01
	28	23	1.8	81	14	PCT-US95-1	Sequence 98, Applicati	3.94e-01
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c	30	23	1.8	81	14	PCT-US95-1	Sequence 92, Applicati	3.94e-01
c	31	23	1.8	82	14	PCT-US95-1	Sequence 97, Applicati	3.94e-01
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c	38	22	1.7	74	14	PCT-US95-1	Sequence 94, Applicati	1.27e+00
c	39	22	1.7	75	14	PCT-US95-1	Sequence 99, Applicati	1.27e+00
c	40	22	1.7	108	7	US-08-357-	Sequence 2, Applicatio	1.27e+00
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	44	22	1.7	863	6	US-07-940-	Sequence 11, Applicati	1.27e+00
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ALIGNMENTS

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DT   01-JAN-1900
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DE   Sequence 17, Application US/08321071A.
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CC   Sequence 17, Application US/08321071A
CC   Patent No. 5672686
CC    GENERAL INFORMATION:
CC      APPLICANT:  CHITTENDEN, Thomas D.
CC      TITLE OF INVENTION:  APOPTOSIS RELATED PROTEIN Bcl-Y, AND METHODS
CC      TITLE OF INVENTION:  OF USE THEREOF
CC      NUMBER OF SEQUENCES:  31
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Hale and Dorr
CC        STREET:  1455 Pennsylvania Avenue, N.W.
CC        CITY:  Washington
CC        STATE:  D.C.
CC        ZIP:  20004
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/321,071A
CC        FILING DATE:  11-OCT-1994
CC        CLASSIFICATION:  514
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US95/10103
CC        FILING DATE:  09-AUG-1995
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  08/287,427
CC        FILING DATE:  09-AUG-1994
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  WIXON, HENRY N.
CC        REGISTRATION NUMBER:  32,073
CC        REFERENCE/DOCKET NUMBER:  104322.121CIP
CC      TELECOMMUNICATION INFORMATION:
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CC       TELEPHONE:  202-942-8400
CC       TELEFAX:  202-942-8484
CC    INFORMATION FOR SEQ ID NO:  17:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  1968 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 1968 BP; 382 A; 560 C; 577 G; 449 T; 0 other;

  Query Match           59.5%;  Score 766;  DB 7;  Length 1968;
  Best Local Similarity  97.9%;  Pred. No. 0.00e+00;
  Matches   793;  Conservative    0;  Mismatches  15;  Indels   2;  Gaps   2;

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Qy     480 TGAGCCACCCGGGTTGGGCCAGGATCCCGGCAGGCTGATCCCGTCCTCCACTGAGACCTG 539

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Qy     540 AAAAATGGCTTCGGGGCAAGGCCCAGGTCCTCCCAGGCAGGAGTGCGGAGAGCCTGCCCT 599

Db     121 GCCCTCTGCTTCTGAGGAGCAGGTAGCCCAGGACACAGAGGAGGTTTTCCGCAGCTACGT 180
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Qy     600 GCCCTCTGCTTCTGAGGAGCAGGTAGCCCAGGACACAGAGGAGGTTTTCCGCAGCTACGT 659

Db     181 TTTTTACCGCCATCAGCAGGAACAGGAGGCTGAAGGGGTGGCTGCCCCTGCCGACCCAGA 240
          |||||||| |||||||||||||||||||||||||| ||||||||||||||||||||||||
Qy     660 TTTTTACCACCATCAGCAGGAACAGGAGGCTGAAGGGGCGGCTGCCCCTGCCGACCCAGA 719

Db     241 GATGGTCACCTTACCTCTGCAACCTAGCAGCACCATGGGGCAGGTGGGACGGCAGCTCGC 300
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy     720 GATGGTCACCTTACCTCTGCAACCTAGCAGCACCATGGGGCAGGTGGGACGGCAGCTCGC 779

Db     301 CATCATCGGGGACGACATCAACCGACGCTATGACTCAGAGTTCCAGACCATGTTGCAGCA 360
          |||||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy     780 CATCATTGGGGACGACATCAACCGACGCTATGACTCAGAGTTCCAGACCATGTTGCAGCA 839

Db     361 CCTGCAGCCCACGGCAGAGAATGCCTATGAGTACTTCACCAAGATTGCCACCAGCCTGTT 420
          |||||||||||||||||||||||||||||||||||||||||||||| ||||||||||||||
Qy     840 CCTGCAGCCCACGGCAGAGAATGCCTATGAGTACTTCACCAAGATTGCCTCCAGCCTGTT 899

Db     421 TGAGAGTGGCATCAATTGGGGCCGTGTGGTGGCTCTTCTGGGCTTCGGCTACCGTCTGGC 480
          |||||||||||||||||||||||||||||||||||||||||||||| ||||||||||||||
Qy     900 TGAGAGTGGCATCAATTGGGGCCGTGTGGTGGCTCTTCTGGGCTTCAGCTACCGTCTGGC 959

Db     481 CCTACACGTCTACCAGCATGGCCTGACTGGCTTCCTAGGCCAGGTGACCCGCTTCGTGGT 540
          ||||||| |||||||| |||||||||||||||||| |||||||||||||||| |||||||
Qy     960 CCTACACATCTACCAGCGTGGCCTGACTGGCTTCCTGGGCCAGGTGACCCGCTTTGTGGT 1019

Db     541 CGACTTCATGCTGCATCACTGCATTGCCCGGTGGATTGCACAGAGGGGTGGCTGGGTGGC 600
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy    1020 GGACTTCATGCTGCATCACTGCATTGCCCGGTGGATTGCACAGAGGGGTGGCTGGGTGGC 1079

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Qy    1080 AGCCCTGAACTTGGGCAATGGTCCCATCCTGAACGTGCTGGTGGTTCTGGGTGTGGTTCT 1139

Db     661 GTTGGGCCAGTTTGTGGTACGAAGATTCTTGAAATCATGACTCCCAAGGGTGCCCTTTGG 720
          |||||||||||||||||||||||||||||| |||||||||||||||||||| || ||
Qy    1140 GTTGGGCCAGTTTGTGGTACGAAGATTCTTCAAATCATGACTCCCAAGGGTGCCTTTGGG 1199

Db     721 GTCCCGGTTCAGACCCCTGCCTGGACTTAAGCGAAGTCTTTGCCTTCTCTGTTCCCTTGC 780
          ||||| |||||||||||||||||||||||||||||||||||||||||||| ||| ||||
Qy    1200 GTCCCAGTTCAGACCCCTGCCTGGACTTAAGCGAAGTCTTTGCCTTCTCTGCTCC-TTGC 1258

Db     781 AGGGGTCCCCCCTCAAGAGTACAGAAGCTT 810
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ID   US-08-440-391-15 STANDARD; DNA; UNC; 93 BP.

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AC   xxxxxx
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DT   01-JAN-1900
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DE   Sequence 15, Application US/08440391.
XX
CC   Sequence 15, Application US/08440391
CC   Patent No. 5656725
CC    GENERAL INFORMATION:
CC      APPLICANT:  CHITTENDEN, Thomas D.; and
CC      APPLICANT:  LUTZ, Robert J.
CC      TITLE OF INVENTION:  NOVEL PEPTIDES AND COMPOSITIONS WHICH
CC      TITLE OF INVENTION:  MODULATE APOPTOSIS
CC      NUMBER OF SEQUENCES:  34
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Hale and Dorr
CC        STREET:  1455 Pennsylvania Avenue, N.W.
CC        CITY:  Washington
CC        STATE:  D.C.
CC        ZIP:  20004
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/440,391
CC        FILING DATE:  12-MAY-1995
CC        CLASSIFICATION:  435
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  WIXON, HENRY N.
CC        REGISTRATION NUMBER:  32,073
CC        REFERENCE/DOCKET NUMBER:  104322.147
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  202-942-8400
CC        TELEFAX:  202-942-8484
CC    INFORMATION FOR SEQ ID NO:  15:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  93 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 93 BP; 22 A; 31 C; 26 G; 14 T; 0 other;

  Query Match            7.1%;  Score 91;  DB 7;  Length 93;
  Best Local Similarity  98.9%;  Pred. No. 3.25e-46;
  Matches    92;  Conservative    0;  Mismatches   1;  Indels   0;  Gaps   0;

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Qy     760 CAGGTGGGACGGCAGCTCGCCATCATTGGGGACGACATCAACCGACGCTATGACTCAGAG 819

Db      61 TTCCAGACCATGTTGCAGCACCTGCAGCCCACG 93
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AC   xxxxxx
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DT   01-JAN-1900
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DE   Sequence 15, Application PC/TUS9606122.
XX
CC   Sequence 15, Application PC/TUS9606122
CC    GENERAL INFORMATION:
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CC      APPLICANT:  IMMUNOGEN, INC.
CC      TITLE OF INVENTION:  NOVEL PEPTIDES AND COMPOSITIONS
CC      TITLE OF INVENTION:  WHICH MODULATE APOPTOSIS
CC      NUMBER OF SEQUENCES:  34
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Hale and Dorr
CC        STREET:  1455 Pennsylvania Avenue, N.W.
CC        CITY:  Washington
CC        STATE:  D.C.
CC        ZIP:  20004
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US96/06122
CC        FILING DATE:  HEREWITH
CC        CLASSIFICATION:
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US 08/440,391
CC        FILING DATE:  12-MAY-1995
CC        CLASSIFICATION:
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  WIXON, HENRY N.
CC        REGISTRATION NUMBER:  32,073
CC        REFERENCE/DOCKET NUMBER:  104322.147PCT
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  202-942-8400
CC        TELEFAX:  202-942-8484
CC    INFORMATION FOR SEQ ID NO:  15:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  93 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 93 BP; 22 A; 31 C; 26 G; 14 T; 0 other;

  Query Match             7.1%;  Score 91;  DB 15;  Length 93;
  Best Local Similarity  98.9%;  Pred. No. 3.25e-46;
  Matches    92;  Conservative    0;  Mismatches   1;  Indels   0;  Gaps   0;

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Qy    760 CAGGTGGGACGGCAGCTCGCCATCATTGGGGACGACATCAACCGACGCTATGACTCAGAG 819

Db     61 TTCCAGACCATGTTGCAGCACCTGCAGCCCACG 93
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XX
DT   01-JAN-1900
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DE   Sequence 17, Application US/08440391.
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CC   Sequence 17, Application US/08440391
CC   Patent No. 5656725
CC    GENERAL INFORMATION:
CC      APPLICANT:  CHITTENDEN, Thomas D.; and
CC      APPLICANT:  LUTZ, Robert J.
CC      TITLE OF INVENTION:  NOVEL PEPTIDES AND COMPOSITIONS WHICH
CC      TITLE OF INVENTION:  MODULATE APOPTOSIS
CC      NUMBER OF SEQUENCES:  34
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Hale and Dorr
CC        STREET:  1455 Pennsylvania Avenue, N.W.
CC        CITY:  Washington
CC        STATE:  D.C.
CC        ZIP:  20004
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/440,391
CC        FILING DATE:  12-MAY-1995
CC        CLASSIFICATION:  435
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  WIXON, HENRY N.
CC        REGISTRATION NUMBER:  32,073
CC        REFERENCE/DOCKET NUMBER:  104322.147
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  202-942-8400
CC        TELEFAX:  202-942-8484
CC    INFORMATION FOR SEQ ID NO:  17:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  84 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 84 BP; 20 A; 26 C; 26 G; 12 T; 0 other;

  Query Match             6.4%;  Score 82;  DB 7;  Length 84;
  Best Local Similarity  98.8%;  Pred. No. 9.61e-40;
  Matches    83;  Conservative    0;  Mismatches   1;  Indels   0;  Gaps   0;

Db      1 CCTAGCAGCACCATGGGGCAGGTGGGACGGCAGCTCGCCATCATCGGGGACGACATCAAC 60
          ||||||||||||||||||||||||||||||||||||||||||||||||| ||||||||||||||
Qy    742 CCTAGCAGCACCATGGGGCAGGTGGGACGGCAGCTCGCCATCATTGGGGACGACATCAAC 801

Db     61 CGACGCTATGACTCAGAGTTCCAG 84
          ||||||||||||||||||||||||
Qy    802 CGACGCTATGACTCAGAGTTCCAG 825


RESULT    5
ID   PCT-US96-06122-17 STANDARD; DNA; UNC; 84 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 17, Application PC/TUS9606122.
XX
CC   Sequence 17, Application PC/TUS9606122
CC    GENERAL INFORMATION:
CC      APPLICANT:  IMMUNOGEN, INC.
CC      TITLE OF INVENTION:  NOVEL PEPTIDES AND COMPOSITIONS
CC      TITLE OF INVENTION:  WHICH MODULATE APOPTOSIS
CC      NUMBER OF SEQUENCES:  34
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Hale and Dorr
CC        STREET:  1455 Pennsylvania Avenue, N.W.
CC        CITY:  Washington
CC        STATE:  D.C.
CC        ZIP:  20004
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US96/06122
CC        FILING DATE:  HEREWITH
CC        CLASSIFICATION:
CC      PRIOR APPLICATION DATA:
```

```
CC        APPLICATION NUMBER:  US 08/440,391
CC        FILING DATE:  12-MAY-1995
CC        CLASSIFICATION:
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  WIXON, HENRY N.
CC        REGISTRATION NUMBER:  32,073
CC        REFERENCE/DOCKET NUMBER:  104322.147PCT
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  202-942-8400
CC        TELEFAX:  202-942-8484
CC    INFORMATION FOR SEQ ID NO:  17:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  84 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 84 BP; 20 A; 26 C; 26 G; 12 T; 0 other;

  Query Match             6.4%;  Score 82;  DB 15;  Length 84;
  Best Local Similarity  98.8%;  Pred. No. 9.61e-40;
  Matches    83;  Conservative    0;  Mismatches   1;  Indels   0;  Gaps   0;

Db       1 CCTAGCAGCACCATGGGGCAGGTGGGACGGCAGCTCGCCATCATCGGGGACGACATCAAC 60
          ||||||||||||||||||||||||||||||||||||||||||| ||||||||||||||||
Qy     742 CCTAGCAGCACCATGGGGCAGGTGGGACGGCAGCTCGCCATCATTGGGGACGACATCAAC 801

Db      61 CGACGCTATGACTCAGAGTTCCAG 84
           ||||||||||||||||||||||||
Qy     802 CGACGCTATGACTCAGAGTTCCAG 825


RESULT    6
ID   US-08-232-463-14 STANDARD; DNA; UNC; 7218 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 14, Application US/08232463.
XX
CC   Sequence 14, Application US/08232463
CC   Patent No. 5670367
CC    GENERAL INFORMATION:
CC      APPLICANT:  DORNER, F.
CC      APPLICANT:  SCHEIFLINGER, F.
CC      APPLICANT:  FALKNER, F. G.
CC      TITLE OF INVENTION:  RECOMBINANT FOWLPOX VIRUS
CC      NUMBER OF SEQUENCES:  52
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Foley & Lardner
CC        STREET:  1800 Diagonal Road, Suite 500
CC        CITY:  Alexandria
CC        STATE:  VA
CC        COUNTRY:  USA
CC        ZIP:  22313-0299
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/232,463
CC        FILING DATE:
CC        CLASSIFICATION:  435
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US/07/935,313
CC        FILING DATE:
CC        APPLICATION NUMBER:  EP 91 114 300.6
CC        FILING DATE:  26-AUG-1991
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  BENT, Stephen A.
CC        REGISTRATION NUMBER:  29,768
CC        REFERENCE/DOCKET NUMBER:  30472/114 IMMU
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (703)836-9300
CC        TELEFAX:  (703)683-4109
CC        TELEX:  899149
CC    INFORMATION FOR SEQ ID NO:  14:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  7218 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      IMMEDIATE SOURCE:
CC        CLONE:  pTZgpt-Fls
SQ   Sequence 7218 BP; 1944 A; 1491 C; 1486 G; 1929 T; 368 other;

  Query Match             3.6%;  Score 46;  DB 7;  Length 7218;
  Best Local Similarity   5.1%;  Pred. No. 6.48e-15;
  Matches    20;  Conservative  200;  Mismatches 174;  Indels   0;  Gaps   0;

Db   1033 CCGAGCTTGGCTGCAGGTCGAGGGAGCTTGCGATYYYYYYYYYYYYYYYYYYYYYYYYYY 1092
          || || ||| || |||   |   |||  ||  ||:  ::    :: : :  :  ::::::
Qy    878 CCAAGATTGCCTCCAGCCTGTTTGAGAGTGGCATCAATTGGGGCCGTGTGGTGGCTCTTC 937

Db   1093 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1152
          :  :::: :: :: ::: :::: : : ::: ::  : :  ::: ::  ::::::
Qy    938 TGGGCTTCAGCTACCGTCTGGCCCTACACATCTACCAGCGTGGCCTGACTGGCTTCCTGG 997

Db   1153 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1212
           ::   :  ::: :::: :  :   :::: : :: : :: :: : :: :::  :   ::
Qy    998 GCCAGGTGACCCGCTTTGTGGTGGACTTCATGCTGCATCACTGCATTGCCCGGTGGATTG 1057

Db   1213 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1272
          : :      :  ::   :  :  ::::   :::   :  :  :::: ::::   : : :
Qy   1058 CACAGAGGGGTGGCTGGGTGGCAGCCCTGAACTTGGGCAATGGTCCCATCCTGAACGTGC 1117

Db   1273 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1332
          :  :  ::::   : :  :::: ::   ::  ::: :  : :     ::::::   :: :
Qy   1118 TGGTGGTTCTGGGTGTGGTTCTGTTGGGCCAGTTTGTGGTACGAAGATTCTTCAAATCAT 1177

Db   1333 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1392
            :::::     : :::::    ::::  :::   ::::: :::   :::   :    ::
Qy   1178 GACTCCCAAGGGTGCCTTTGGGGTCCCAGTTCAGACCCCTGCCTGGACTTAAGCGAAGTC 1237

Db   1393 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1426
          ::: :::::::: :::::: :    :::::::::
Qy   1238 TTTGCCTTCTCTGCTCCTTGCAGGGTCCCCCCTC 1271


RESULT    7
ID   US-08-440-391-19 STANDARD; DNA; UNC; 45 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 19, Application US/08440391.
XX
CC   Sequence 19, Application US/08440391
CC   Patent No. 5656725
CC    GENERAL INFORMATION:
CC      APPLICANT:  CHITTENDEN, Thomas D.; and
CC      APPLICANT:  LUTZ, Robert J.
CC      TITLE OF INVENTION:  NOVEL PEPTIDES AND COMPOSITIONS WHICH
CC      TITLE OF INVENTION:  MODULATE APOPTOSIS
CC      NUMBER OF SEQUENCES:  34
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Hale and Dorr
CC        STREET:  1455 Pennsylvania Avenue, N.W.
CC        CITY:  Washington
CC        STATE:  D.C.
CC        ZIP:  20004
```

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CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/440,391
CC        FILING DATE:  12-MAY-1995
CC        CLASSIFICATION:  435
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  WIXON, HENRY N.
CC        REGISTRATION NUMBER:  32,073
CC        REFERENCE/DOCKET NUMBER:  104322.147
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  202-942-8400
CC        TELEFAX:  202-942-8484
CC    INFORMATION FOR SEQ ID NO:  19:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  45 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 45 BP; 10 A; 15 C; 15 G; 5 T; 0 other;

  Query Match             3.3%;  Score 43;  DB 7;  Length 45;
  Best Local Similarity  97.8%;  Pred. No. 5.69e-13;
  Matches    44;  Conservative    0;  Mismatches   1;  Indels   0;  Gaps   0;

Db      1 GTGGGACGGCAGCTCGCCATCATCGGGGACGACATCAACCGACGC 45
          ||||||||||||||||||||| ||||||||||||||||||||
Qy    763 GTGGGACGGCAGCTCGCCATCATTGGGGACGACATCAACCGACGC 807


RESULT    8
ID   PCT-US96-06122-19 STANDARD; DNA; UNC; 45 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 19, Application PC/TUS9606122.
XX
CC   Sequence 19, Application PC/TUS9606122
CC    GENERAL INFORMATION:
CC      APPLICANT:  IMMUNOGEN, INC.
CC      TITLE OF INVENTION:  NOVEL PEPTIDES AND COMPOSITIONS
CC      TITLE OF INVENTION:  WHICH MODULATE APOPTOSIS
CC      NUMBER OF SEQUENCES:  34
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Hale and Dorr
CC        STREET:  1455 Pennsylvania Avenue, N.W.
CC        CITY:  Washington
CC        STATE:  D.C.
CC        ZIP:  20004
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US96/06122
CC        FILING DATE:  HEREWITH
CC        CLASSIFICATION:
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US 08/440,391
CC        FILING DATE:  12-MAY-1995
CC        CLASSIFICATION:
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  WIXON, HENRY N.
CC        REGISTRATION NUMBER:  32,073
CC        REFERENCE/DOCKET NUMBER:  104322.147PCT
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  202-942-8400
CC        TELEFAX:  202-942-8484
CC    INFORMATION FOR SEQ ID NO:  19:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  45 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 45 BP; 10 A; 15 C; 15 G; 5 T; 0 other;

  Query Match             3.3%;  Score 43;  DB 15;  Length 45;
  Best Local Similarity  97.8%;  Pred. No. 5.69e-13;
  Matches    44;  Conservative    0;  Mismatches   1;  Indels   0;  Gaps   0;

Db      1 GTGGGACGGCAGCTCGCCATCATCGGGGACGACATCAACCGACGC 45
          ||||||||||||||||||||| ||||||||||||||||||||
Qy    763 GTGGGACGGCAGCTCGCCATCATTGGGGACGACATCAACCGACGC 807


RESULT    9
ID   US-08-440-391-21 STANDARD; DNA; UNC; 39 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 21, Application US/08440391.
XX
CC   Sequence 21, Application US/08440391
CC   Patent No. 5656725
CC    GENERAL INFORMATION:
CC      APPLICANT:  CHITTENDEN, Thomas D.; and
CC      APPLICANT:  LUTZ, Robert J.
CC      TITLE OF INVENTION:  NOVEL PEPTIDES AND COMPOSITIONS WHICH
CC      TITLE OF INVENTION:  MODULATE APOPTOSIS
CC      NUMBER OF SEQUENCES:  34
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Hale and Dorr
CC        STREET:  1455 Pennsylvania Avenue, N.W.
CC        CITY:  Washington
CC        STATE:  D.C.
CC        ZIP:  20004
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/440,391
CC        FILING DATE:  12-MAY-1995
CC        CLASSIFICATION:  435
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  WIXON, HENRY N.
CC        REGISTRATION NUMBER:  32,073
CC        REFERENCE/DOCKET NUMBER:  104322.147
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  202-942-8400
CC        TELEFAX:  202-942-8484
CC    INFORMATION FOR SEQ ID NO:  21:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  39 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 39 BP; 11 A; 11 C; 11 G; 6 T; 0 other;

  Query Match             3.0%;  Score 39;  DB 7;  Length 39;
  Best Local Similarity 100.0%;  Pred. No. 1.99e-10;
  Matches    39;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;
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```
Db       1 GGGGACGACATCAACCGACGCTATGACTCAGAGTTCCAG 39
           |||||||||||||||||||||||||||||||||||||||
Qy     787 GGGGACGACATCAACCGACGCTATGACTCAGAGTTCCAG 825


RESULT   10
ID   PCT-US96-06122-21 STANDARD; DNA; UNC; 39 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 21, Application PC/TUS9606122.
XX
CC   Sequence 21, Application PC/TUS9606122
CC    GENERAL INFORMATION:
CC      APPLICANT:  IMMUNOGEN, INC.
CC      TITLE OF INVENTION:  NOVEL PEPTIDES AND COMPOSITIONS
CC      TITLE OF INVENTION:  WHICH MODULATE APOPTOSIS
CC      NUMBER OF SEQUENCES:  34
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Hale and Dorr
CC        STREET:  1455 Pennsylvania Avenue, N.W.
CC        CITY:  Washington
CC        STATE:  D.C.
CC        ZIP:  20004
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US96/06122
CC        FILING DATE:  HEREWITH
CC        CLASSIFICATION:
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US 08/440,391
CC        FILING DATE:  12-MAY-1995
CC        CLASSIFICATION:
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  WIXON, HENRY N.
CC        REGISTRATION NUMBER:  32,073
CC        REFERENCE/DOCKET NUMBER:  104322.147PCT
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  202-942-8400
CC        TELEFAX:  202-942-8484
CC     INFORMATION FOR SEQ ID NO:  21:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  39 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 39 BP; 11 A; 11 C; 11 G; 6 T; 0 other;

  Query Match             3.0%;  Score 39;  DB 15;  Length 39;
  Best Local Similarity 100.0%;  Pred. No. 1.99e-10;
  Matches    39;  Conservative    0;  Mismatches   0;  Indels   0;  Gaps   0;

Db       1 GGGGACGACATCAACCGACGCTATGACTCAGAGTTCCAG 39
           |||||||||||||||||||||||||||||||||||||||
Qy     787 GGGGACGACATCAACCGACGCTATGACTCAGAGTTCCAG 825


RESULT   11
ID   US-08-238-163-5 STANDARD; DNA; UNC; 215 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 5, Application US/08238163.
XX
CC   Sequence 5, Application US/08238163
CC   Patent No. 5569830
CC    GENERAL INFORMATION:
CC      APPLICANT:  BENNETT, Alan
CC      APPLICANT:  LABAVITCH, John M.
CC      APPLICANT:  POWELL, Ann
CC      APPLICANT:  STOTZ, Henrik
CC      TITLE OF INVENTION:  PLANT INHIBITORS OF FUNGAL
CC      TITLE OF INVENTION:  POLYGALACTURONASES AND THEIR USE TO CONTROL FUNGAL DISEA
CC      NUMBER OF SEQUENCES:  24
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Townsend and Townsend Khourie and Crew
CC        STREET:  Steuart Street Tower, One Market Plaza
CC        CITY:  San Francisco
CC        STATE:  California
CC        COUNTRY:  US
CC        ZIP:  94105-1493
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/238,163
CC        FILING DATE:  03-MAY-1994
CC        CLASSIFICATION:  800
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Bastian, Kevin L.
CC        REGISTRATION NUMBER:  34,774
CC        REFERENCE/DOCKET NUMBER:  2307E-540
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (415) 543-9600
CC        TELEFAX:  (415) 543-5043
CC     INFORMATION FOR SEQ ID NO:  5:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  215 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  unknown
CC      MOLECULE TYPE:  protein
CC      FEATURE:
CC        NAME/KEY:  misc_feature
CC        LOCATION:  1..215
CC        OTHER INFORMATION:  /standard_name= "Deduced amino acid
CC        OTHER INFORMATION:  sequence of PGIP from bean."
SQ   Sequence 215 BP; 15 A; 8 C; 25 G; 26 T; 141 other;

  Query Match             2.9%;  Score 37;  DB 6;  Length 215;
  Best Local Similarity  16.0%;  Pred. No. 3.50e-09;
  Matches    27;  Conservative   71;  Mismatches  69;  Indels   2;  Gaps   2;

Db       4 VTMSSSSVVSRTASCNDKAKKDGNTTSSWTTDCCNRTWGVCDTDTTYRVNNDSGHNKYSS 63
           :|:  ::::::| :| ::| ::| ||::::  :|| : :|:|  : |: :  : |   : :
Qy     967 ATCTACCAGCGTGGCCTGACTGGCTTCCTGGGCCAGGTGACCCGCTTTGTGGTGGACTTC 1026

Db      64 ANYNYGGNNVGAAKTHYYTHTNVSGADSKTVTDSYNASGTSSSNGGTDGNRSGADSYGSS 123
           |   :|   :   : ::: :  ::  : :|: ::  |:| ::  | |:|  :| ::: :
Qy    1027 ATGCTGCATCACTGCATTGCCCGGTGGATTGCACAGAGG-GGTGGCTGGGTGGCAGCCCT 1085

Db     124 KTAMTSRNRTGKTANNAVDSRNMGDASVGSDKNTKKHAKNSADGKVGSK 172
           : |:| : :   |    : :: : :  : ::: |::: :   :|:: ::
Qy    1086 GAACTTGGGCAATGGTCC-CATCCTGAACGTGCTGGTGGTTCTGGGTGT 1133


RESULT   12
ID   US-08-238-163-5 STANDARD; DNA; UNC; 215 BP.

XX
AC   xxxxxx
XX
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DT   01-JAN-1900
XX
DE   Sequence 5, Application US/08238163.
XX
CC   Sequence 5, Application US/08238163
CC   Patent No. 5569830
CC    GENERAL INFORMATION:
CC      APPLICANT:  BENNETT, Alan
CC      APPLICANT:  LABAVITCH, John M.
CC      APPLICANT:  POWELL, Ann
CC      APPLICANT:  STOTZ, Henrik
CC      TITLE OF INVENTION:  PLANT INHIBITORS OF FUNGAL
CC      TITLE OF INVENTION:  POLYGALACTURONASES AND THEIR USE TO CONTROL FUNGAL DISEASE
CC      NUMBER OF SEQUENCES:  24
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Townsend and Townsend Khourie and Crew
CC        STREET:  Steuart Street Tower, One Market Plaza
CC        CITY:  San Francisco
CC        STATE:  California
CC        COUNTRY:  US
CC        ZIP:  94105-1493
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/238,163
CC        FILING DATE:  03-MAY-1994
CC        CLASSIFICATION:  800
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Bastian, Kevin L.
CC        REGISTRATION NUMBER:  34,774
CC        REFERENCE/DOCKET NUMBER:  2307E-540
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (415) 543-9600
CC        TELEFAX:  (415) 543-5043
CC    INFORMATION FOR SEQ ID NO:  5:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  215 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  unknown
CC      MOLECULE TYPE:  protein
CC      FEATURE:
CC        NAME/KEY:  misc_feature
CC        LOCATION:  1..215
CC        OTHER INFORMATION:  /standard_name= "Deduced amino acid
CC        OTHER INFORMATION:  sequence of PGIP from bean."
SQ   Sequence 215 BP; 15 A; 8 C; 25 G; 26 T; 141 other;

  Query Match            2.7%;  Score 35;  DB 6;  Length 215;
  Best Local Similarity  11.2%;  Pred. No. 5.92e-08;
  Matches    23;  Conservative   85;  Mismatches  96;  Indels   1;  Gaps   1;

Db      1 MTNVTMSSSSVVSRTASCNDKAKKDGNTTSSWTTDCCNRTWGVCDTDTTYRVNNDSGHNK 60
          :| :|:: : :: : |:  ::  ::|   ::: | |  : : : :  |  ::  :: : :
Cp    621 CTGCTCCTCAGAAGCAGAGGGCAGGGCAGGCTCTCCGCACTCCTGCCTGGGAGGACCTGG 562

Db     61 YSSAN-YNYGGNNVGAAKTHYYTHTNVSGADSKTVTDSYNASGTSSSNGGTDGNRSGADS 119
           ::   : : |  :  |:|::: :   :  ::: : ::   :|  :    |:  ::||::
Cp    561 GCCTTGCCCCGAAGCCATTTTTCAGGTCTCAGTGGAGGACGGGATCAGCCTGCCGGGATC 502

Db    120 YGSSKTAMTSRNRTGKTANNAVDSRNMGDASVGSDKNTKKHAKNSADGKVGSKNNGDRNN 179
          : ::   : :  : |:     ::::  |: ::| ::  :::   :|:|::  :  |:
Cp    501 CTGGCCCAACCCGGGTGGCTCAGCAGGGTGGAGATGGAGGTCCCGAGGGGCTGGCGGCTG 442

Db    180 RYGTGTKSNVSNNCGGGNKRDVSSY 204
           :|    : ::  | |  :::: ::
Cp    441 CTGCTCCCAGGGGCTGAGTGGGAGC 417


RESULT   13
ID   US-08-232-463-14 STANDARD; DNA; UNC; 7218 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 14, Application US/08232463.
XX
CC   Sequence 14, Application US/08232463
CC   Patent No. 5670367
CC    GENERAL INFORMATION:
CC      APPLICANT:  DORNER, F.
CC      APPLICANT:  SCHEIFLINGER, F.
CC      APPLICANT:  FALKNER, F. G.
CC      TITLE OF INVENTION:  RECOMBINANT FOWLPOX VIRUS
CC      NUMBER OF SEQUENCES:  52
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Foley & Lardner
CC        STREET:  1800 Diagonal Road, Suite 500
CC        CITY:  Alexandria
CC        STATE:  VA
CC        COUNTRY:  USA
CC        ZIP:  22313-0299
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/232,463
CC        FILING DATE:
CC        CLASSIFICATION:  435
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US/07/935,313
CC        FILING DATE:
CC        APPLICATION NUMBER:  EP 91 114 300.6
CC        FILING DATE:  26-AUG-1991
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  BENT, Stephen A.
CC        REGISTRATION NUMBER:  29,768
CC        REFERENCE/DOCKET NUMBER:  30472/114 IMMU
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (703)836-9300
CC        TELEFAX:  (703)683-4109
CC        TELEX:  899149
CC    INFORMATION FOR SEQ ID NO:  14:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  7218 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      IMMEDIATE SOURCE:
CC        CLONE:  pTZgpt-F1s
SQ   Sequence 7218 BP; 1944 A; 1491 C; 1486 G; 1929 T; 368 other;

  Query Match            2.4%;  Score 31;  DB 7;  Length 7218;
  Best Local Similarity  2.6%;  Pred. No. 1.46e-05;
  Matches     2;  Conservative   52;  Mismatches  23;  Indels   0;  Gaps   0;

Db   1361 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1420
          :: ::::: :::::: :::::::::  :::: :  : :::   ::::: ::   : : :::
Cp    104 TTGTTTTTACTTTTCATCTTTTTCAGTTCTATAACATTTGAATTTTTATTAAGTATATTT 45

Db   1421 YYYYYYYYYYYYYYYGTA 1437
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Cp     44 CATGTATTGTCTCTATA 28


RESULT   14
ID   PCT-US95-11934-92 STANDARD; DNA; UNC; 81 BP.

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DT   01-JAN-1900
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DE   Sequence 92, Application PC/TUS9511934.
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CC   Sequence 92, Application PC/TUS9511934
CC    GENERAL INFORMATION:
CC      APPLICANT:  Cytogen Corporation
CC      TITLE OF INVENTION:  Antigen Binding Peptides (Abtides) From
CC      TITLE OF INVENTION:  Peptide Libraries
CC      NUMBER OF SEQUENCES:  103
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Pennie & Edmonds
CC        STREET:  1155 Avenue of the Americas
CC        CITY:  New York
CC        STATE:  New York
CC        COUNTRY:  USA
CC        ZIP:  10036
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.30
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US95/11934
CC        FILING DATE:  20-SEP-1995
CC        CLASSIFICATION:
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Misrock, S. Leslie
CC        REGISTRATION NUMBER:  18,872
CC        REFERENCE/DOCKET NUMBER:  1101-196-228
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (212) 790-9090
CC        TELEFAX:  (212) 869-9741/8864
CC        TELEX:  66141 PENNIE
CC    INFORMATION FOR SEQ ID NO:  92:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  81 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 81 BP; 3 A; 5 C; 6 G; 4 T; 63 other;

  Query Match             2.0%;  Score 26;  DB 14;  Length 81;
  Best Local Similarity  13.2%;  Pred. No. 1.00e-02;
  Matches    10;  Conservative   20;  Mismatches  46;  Indels   0;  Gaps   0;

Db       4 TGTCTCGAGNNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNN 63
           || ||| ||   :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Qy     885 TGCCTCCAGCCTGTTTGAGAGTGGCATCAATTGGGGCCGTGTGGTGGCTCTTCTGGGCTT 944

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DT   01-JAN-1900
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DE   Sequence 94, Application PC/TUS9511934.
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CC   Sequence 94, Application PC/TUS9511934
CC    GENERAL INFORMATION:
CC      APPLICANT:  Cytogen Corporation
CC      TITLE OF INVENTION:  Antigen Binding Peptides (Abtides) From
CC      TITLE OF INVENTION:  Peptide Libraries
CC      NUMBER OF SEQUENCES:  103
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Pennie & Edmonds
CC        STREET:  1155 Avenue of the Americas
CC        CITY:  New York
CC        STATE:  New York
CC        COUNTRY:  USA
CC        ZIP:  10036
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.30
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US95/11934
CC        FILING DATE:  20-SEP-1995
CC        CLASSIFICATION:
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Misrock, S. Leslie
CC        REGISTRATION NUMBER:  18,872
CC        REFERENCE/DOCKET NUMBER:  1101-196-228
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (212) 790-9090
CC        TELEFAX:  (212) 869-9741/8864
CC        TELEX:  66141 PENNIE
CC    INFORMATION FOR SEQ ID NO:  94:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  74 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 74 BP; 3 A; 4 C; 3 G; 1 T; 63 other;

  Query Match             1.9%;  Score 24;  DB 14;  Length 74;
  Best Local Similarity   9.7%;  Pred. No. 1.19e-01;
  Matches     7;  Conservative   20;  Mismatches  45;  Indels   0;  Gaps   0;

Db       1 TCGAGNNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNB 60
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Qy     889 TCCAGCCTGTTTGAGAGTGGCATCAATTGGGGCCGTGTGGTGGCTCTTCTGGGCTTCAGC 948

Db      61 NNBNNBNACGCC 72
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Qy     949 TACCGTCTGGCC 960


Search completed: Wed May  6 23:52:08 1998
Job time : 78 secs.
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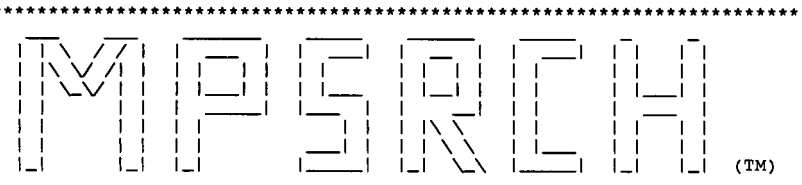

Release 3.0.5AA John F. Collins, Biocomputing Research Unit.

MPsrch_nn n.a. - n.a. database search, using Smith-Waterman algorithm

Run on: Thu May 7 00:07:44 1998; MasPar time 296.75 Seconds
960.555 Million cell updates/sec

Tabular output not generated.

Title: >US-08-320-157-20
Description: (1-5408) from US08320157.seq
Perfect Score: 5408
N.A. Sequence: 1 GAATTCTGGTAATTAGTTAA.....CCATTCCCCAGGGAGAATTC 5408
Comp: CTTAAGACCATTAATCAATT.....GGTAAGGGGTCCCTCTTAAG

Scoring table: TABLE default
Gap 6

Nmatch STD : Dbase 0; Query 0

Searched: 102136 seqs, 26354296 bases x 2

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database: n-issued
1:back1 2:51 3:52 4:53 5:54 6:55 7:56 8:57 9:PCT90
10:PCT91 11:PCT92 12:PCT93 13:PCT94 14:PCT95 15:PCT96

Statistics: Mean 10.105; Variance 5.656; scale 1.786

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description	Pred. No.
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c	2	215	4.0	320	7	US-08-629-	Sequence 5, Applicatio	9.40e-133
c	3	215	4.0	320	7	US-08-759-	Sequence 5, Applicatio	9.40e-133
	4	215	4.0	22481	14	PCT-US95-0	Sequence 43, Applicati	9.40e-133
	5	210	3.9	7210	14	PCT-US95-0	Sequence 10, Applicati	4.77e-129
	6	209	3.9	17327	4	US-07-906-	Sequence 15, Applicati	2.63e-128
	7	205	3.8	11613	6	US-08-484-	Sequence 10, Applicati	2.40e-125
	8	200	3.7	282	6	US-08-133-	Sequence 8, Applicatio	1.19e-121
	9	199	3.7	1751	15	PCT-US96-1	Sequence 1, Applicatio	6.55e-121
c	10	202	3.7	4517	12	PCT-US93-0	Sequence 83, Applicati	3.97e-123
	11	199	3.7	6063	7	US-08-195-	Sequence 4, Applicatio	6.55e-121
	12	199	3.7	15328	13	PCT-US94-0	Sequence 33, Applicati	6.55e-121
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c	17	197	3.6	3373	7	US-08-273-	Sequence 2, Applicatio	1.96e-119
c	18	196	3.6	4421	14	PCT-US95-0	Sequence 9, Applicatio	1.08e-118
c	19	195	3.6	4742	7	US-08-250-	Sequence 35, Applicati	5.88e-118
c	20	192	3.6	4823	14	PCT-US95-1	Sequence 5, Applicatio	9.61e-116
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c	22	192	3.6	4823	14	PCT-US95-0	Sequence 5, Applicatio	9.61e-116
c	23	197	3.6	5836	7	US-08-380-	Sequence 1, Applicatio	1.96e-119
	24	195	3.6	7452	13	PCT-US94-0	Sequence 1, Applicatio	5.88e-118
c	25	197	3.6	8174	10	PCT-US91-0	Sequence 3, Applicatio	1.96e-119
c	26	197	3.6	8174	4	US-07-914-	Sequence 5, Applicatio	1.96e-119
c	27	197	3.6	8174	6	US-08-393-	Sequence 5, Applicatio	1.96e-119
	28	195	3.6	11531	7	US-08-068-	Sequence 1, Applicatio	5.88e-118
	29	195	3.6	11531	8	US-08-442-	Sequence 1, Applicatio	5.88e-118
	30	197	3.6	17041	6	US-08-076-	Sequence 1, Applicatio	1.96e-119
c	31	194	3.6	17327	4	US-07-906-	Sequence 15, Applicati	3.22e-117
c	32	195	3.6	31571	7	US-08-323-	Sequence 1, Applicatio	5.88e-118
c	33	193	3.6	35100	8	US-08-306-	Sequence 19, Applicati	1.76e-116
c	34	193	3.6	35100	12	PCT-US93-0	Sequence 19, Applicati	1.76e-116
c	35	191	3.5	288	8	US-08-157-	Sequence 8, Applicatio	5.25e-115
c	36	189	3.5	1664	7	US-08-250-	Sequence 34, Applicati	1.56e-113
	37	188	3.5	6769	8	US-08-487-	Sequence 20, Applicati	8.53e-113
	38	191	3.5	8342	13	PCT-US94-0	Sequence 63, Applicati	5.25e-115
	39	189	3.5	8392	12	PCT-US93-0	Sequence 6, Applicatio	1.56e-113
	40	189	3.5	8392	5	US-08-080-	Sequence 6, Applicatio	1.56e-113
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c	43	189	3.5	19557	11	PCT-US92-0	Sequence 1, Applicatio	1.56e-113
	44	190	3.5	20303	7	US-08-370-	Sequence 6, Applicatio	2.86e-114
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ALIGNMENTS

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ID US-08-321-071A-17 STANDARD; DNA; UNC; 1968 BP.

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DT 01-JAN-1900
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DE Sequence 17, Application US/08321071A.
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CC Sequence 17, Application US/08321071A
CC Patent No. 5672686
CC GENERAL INFORMATION:
CC APPLICANT: CHITTENDEN, Thomas D.
CC TITLE OF INVENTION: APOPTOSIS RELATED PROTEIN Bcl-Y, AND METHODS
CC TITLE OF INVENTION: OF USE THEREOF
CC NUMBER OF SEQUENCES: 31
CC CORRESPONDENCE ADDRESS:
CC ADDRESSEE: Hale and Dorr
CC STREET: 1455 Pennsylvania Avenue, N.W.
CC CITY: Washington
CC STATE: D.C.
CC ZIP: 20004
CC COMPUTER READABLE FORM:
CC MEDIUM TYPE: Floppy disk
CC COMPUTER: IBM PC compatible
CC OPERATING SYSTEM: PC-DOS/MS-DOS
CC SOFTWARE: PatentIn Release #1.0, Version #1.25
CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/08/321,071A
CC FILING DATE: 11-OCT-1994
CC CLASSIFICATION: 514
CC PRIOR APPLICATION DATA:
CC APPLICATION NUMBER: PCT/US95/10103
CC FILING DATE: 09-AUG-1995
CC PRIOR APPLICATION DATA:
CC APPLICATION NUMBER: 08/287,427
CC FILING DATE: 09-AUG-1994
CC ATTORNEY/AGENT INFORMATION:
CC NAME: WIXON, HENRY N.
CC REGISTRATION NUMBER: 32,073
CC REFERENCE/DOCKET NUMBER: 104322.121CIP
CC TELECOMMUNICATION INFORMATION:

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CC       TELEPHONE:  202-942-8400
CC       TELEFAX:  202-942-8484
CC    INFORMATION FOR SEQ ID NO:  17:
CC      SEQUENCE CHARACTERISTICS:
CC       LENGTH:  1968 base pairs
CC       TYPE:  nucleic acid
CC       STRANDEDNESS:  single
CC       TOPOLOGY:  linear
CC     MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 1968 BP; 382 A; 560 C; 577 G; 449 T; 0 other;

  Query Match           26.5%;  Score 1431;  DB 7;  Length 1968;
  Best Local Similarity  90.0%;  Pred. No. 0.00e+00;
  Matches  1784;  Conservative    0;  Mismatches 167;  Indels  31;  Gaps  21;

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Qy   1900 CATCACCAGG-ACGACATCAACCGGCACTATGACTTCGGAGTTCCAGACCATGCTGCAGC 1958

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Qy   1959 ACCTGCAGCCCACGGCAGAGAACGCCTACGAGTACTTCACCAAGATCGCCTCCAGCCTGT 2018

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Qy   2196 CAGCCCTGGACTTGGGCAATAGTCCCATCCTGAACGTGCTGGTGGTTGTGGGTGTGGTTC 2255

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Qy   2613 CACTCCTCCCCAGTAAGTGTTTAACGGTTTTAGCTTTTTATAATACCCTTGGGAGAGCCC 2672

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Qy   2673 ATTCCCACCATTCTACCCAAGGCCGGGATGTCTGGGGTGTGGGGGTTGGTGGGTCGTAAC 2732

Db    1136 -T--GTTCCCCAGGATTCAGCTATTCTGGAAGATCAGCACCCTAAGAGATGGGACTAGGA 1192
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Qy   2792 CCTGGTCCTGG-CC-GTCCCTAAGCAT-CATGTGTCCCAGGAGCAGGACTGACTGGGAGA 2848

Db    1253 GGGGGGCCAAGGTCCTGCTCAACTCTACCCCTGCTCCCATTCCTCCCTCCGGCCATACTG 1312
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Qy   2907 CCTTTGCAGTTGGACTCTCAGGGATTCTGGGCTTGGGGTGTGGGGCGGCGTGGAGTAACA 2966

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Qy   2967 GGCCAGAGCTGTCTGAACTTATGTGTCAGAAGCCTCCAAGCCTGCCTCCCAAGGTCCTCT 3026

Db    1433 CAGTTCTCTCCCTTCCTCTCTCCTTATAGACACTTGCTCCCAACCCATTCACTACAGGTG 1492
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Db    1493 AAGGCTCTCACCCCATCCCTGGGGGCCTTGGGTGAGTGGCCTGCTAAGGCTCCTCCTTGC 1552
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Db    1553 CCAGACTACAGGGCTT-----AGGACTTGGTTTGTTATATCAGGGAAAAGGAGTAGGGAG 1607
           |||||||||||||||     ||| |||||||||||| ||||||| ||||||||||||
Qy   3146 CCAGACTACAGGGCTTGGTTTAGGGCTTGGTTTGTTATTTCAGGGATAAGGAGTAGGGAG 3205

Db    1608 TTCATCTGGAGGGTTCTAAGTGGGAGAAGGACTACCAACACCACTAGGAATCCCAGAGGT 1667
           |||||||||| |||||||||||||||||||||||||||||||||||||||||||||||||
Qy   3206 TTCATCTGGAAGGTTCTAAGTGGGAGAAGGACTATCAACACCAC-AGGAATCCCAGAGGT 3264

Db    1668 GGGATCCTCCCTCATGGCTCTGGCACAGTGTAATCCAGGGGTGTAGATGGGGGAACTGTG 1727
           |||||||||||||||||||||||||||||||||||||||||||| |||| ||| |||||||
Qy   3265 GGGATCCTCCCTCATGGCTCTGGCACAGTGTAATCCAGGGGTGGAGATAGGG-AACTGTG 3323

Db    1728 AATACTTGAACTCTGTTCCCCCACCCTCCATGCTCCTCACCTGTCTAGGTCTCCTCAGGG 1787
           ||||| |||||||||| |||| ||||||||||||||||||| ||| ||||||  |   |
Qy   3324 AATACCTGAACTCTGTCCCCCGACCCTCCATGCTCCTCACCTTTCTGGGTCTCTCCTCAG 3383

Db    1788 TG-GGGGGTGACAGTGCCTTCTCTATTGGGCACAGCCTAGGGTCTTGGGGGTCAGGGGGG 1846
           || |||||||| ||| |||||||||| |||||||||||||||| |||||||| | |||||
Qy   3384 TGTGGGGGTGAGAGTACCTTCTCTATCGGGCACAGCCTAGGGTGTTGGGGGTGAAGGGGG 3443

Db    1847 AGAAGTTCTTGATTCAGCCAAATGCAGGGAGGGGAGGCAGATGGAGCCCATAGGCCACCC 1906
           |||||||||||||||||||||||||||||||||||||||||||| |||||||| |||||| |
Qy   3444 AGAAGTTCTTGATTCAGCCAAATGCAGGGAGGGGAGGCAGAAGGAGCCCACAGGCCACTC 3503

Db    1907 CCTATCCTCTGAGTGTTTGGAAATAAACTGTGCAATCCCCTCACCCTGAAAAAAAAAAAA 1966
           |||||||||||||||||||||||||||||||||||||||||| |||     |||||  | |||
Qy   3504 CCTATCCTCTGAGTGTTTGGAAATAAACTGTGCAATCCCATCAAAAAAAAAAAGGAGAAA 3563
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Db   1967 AA 1968
          ||
Qy   3564 AA 3565


RESULT    2
ID   US-08-629-939-5 STANDARD; DNA; UNC; 320 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 5, Application US/08629939.
XX
CC   Sequence 5, Application US/08629939
CC   Patent No. 5645995
CC    GENERAL INFORMATION:
CC      APPLICANT:  Kieback, Dirk G.
CC      TITLE OF INVENTION:  METHODS FOR DIAGNOSING AN INCREASED
CC      TITLE OF INVENTION:  RISK OF BREAST OR OVARIAN CANCER
CC      NUMBER OF SEQUENCES:  14
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  SUGHRUE, MION, ZINN, MACPEAK & SEAS
CC        STREET:  2100 Pennsylvania Avenue, N.W., Suite 800
CC        CITY:  Washington, D.C.
CC        STATE:  D.C.
CC        COUNTRY:  U.S.A.
CC        ZIP:  20037
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/629,939
CC        FILING DATE:  12-APRIL-1996
CC        CLASSIFICATION:  435
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  KIT, Gordon
CC        REGISTRATION NUMBER:  30,764
CC        REFERENCE/DOCKET NUMBER:  A-6612
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (202) 293-7060
CC        TELEFAX:  (202) 293-7860
CC     INFORMATION FOR SEQ ID NO:  5:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  320 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA
CC      HYPOTHETICAL:  NO
SQ   Sequence 320 BP; 50 A; 97 C; 80 G; 93 T; 0 other;

  Query Match             4.0%;  Score 215;  DB 7;  Length 320;
  Best Local Similarity  88.3%;  Pred. No. 9.40e-133;
  Matches   265;  Conservative    0;  Mismatches  32;  Indels   3;  Gaps   3;

Db      7 TTTTTTTTTTTTTTTTTTTGAGACGGAGTCTGGCTCTGTCGCCCAGGCTGGAGTGCAGTG 66
          ||| |||||| |||||||||||| ||||||| |||||||||| ||||||||||||||||
Cp   5044 TTTATTTTTTCTTTTTTTTGAGATGGAGTCTCGCTCTGTCGCC-AGGCTGGAGTGCAGTG 4986

Db     67 GCGGGATCTCGGCTCACTGCAAGCTCCGCCTCCCGGGTTCACGCCATTCTCCTGCCTCAG 126
          ||| ||| |||||||| ||||| |||||||||| || ||| || ||||||||||||||||
Cp   4985 GCGTGATATCGGCTCAGTGCAACCTCCGCCTCCCAGGCTCAAGCGATTCTCCTGCCTCAG 4926

Db    127 CCTCCCAAGTAGCTGGGACTACAGGCGCCCGCCACTACGCCCAGCTAATTTTTTGTATTT 186
          |||||| |||||||||||||||| ||||||||| || ||||||||||||| ||||||
Cp   4925 CCTCCCGAGTAGCTGGGACTACAGGTGCCCGCCACCACACCCAGCTAATTTTT-GTATTT 4867

Db    187 TTAGTAGAGACGGGGTTTCACCGTTTTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGA 246
          |||||||||| |||||||||| | || |||| ||||||||| | ||| ||||||| |||
Cp   4866 TTAGTAGAGATGGGGTTTCACCATGTTGGCCATGATGGTCTCAAACTCTTGACCTCATGA 4807

Db    247 TCCGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCCGGCC 306
          ||| || |||| |||||||||||||||||| |||||||| |||| |||| || |||||||
Cp   4806 TCCACCTGCCTTGGCCTCCCAAAGTGCTGG-ATTACAGGTGTGAACCACTGCACCCGGCC 4748


RESULT    3
ID   US-08-759-873-5 STANDARD; DNA; UNC; 320 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 5, Application US/08759873.
XX
CC   Sequence 5, Application US/08759873
CC   Patent No. 5683885
CC    GENERAL INFORMATION:
CC      APPLICANT:  Kieback, Dirk G.
CC      TITLE OF INVENTION:  METHODS FOR DIAGNOSING AN INCREASED RISK
CC      TITLE OF INVENTION:  OF BREAST OR OVARIAN CANCER
CC      NUMBER OF SEQUENCES:  14
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  SUGHRUE, MION, ZINN, MACPEAK & SEAS
CC        STREET:  2100 Pennsylvania Avenue, N.W., Suite 800
CC        CITY:  Washington, D.C.
CC        STATE:  D.C.
CC        COUNTRY:  U.S.A.
CC        ZIP:  20037
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/759,873
CC        FILING DATE:  12-APRIL-1996
CC        CLASSIFICATION:  435
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  KIT, Gordon
CC        REGISTRATION NUMBER:  30,764
CC        REFERENCE/DOCKET NUMBER:  A-6612
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (202) 293-7060
CC        TELEFAX:  (202) 293-7860
CC     INFORMATION FOR SEQ ID NO:  5:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  320 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA
CC      HYPOTHETICAL:  NO
SQ   Sequence 320 BP; 50 A; 97 C; 80 G; 93 T; 0 other;

  Query Match             4.0%;  Score 215;  DB 7;  Length 320;
  Best Local Similarity  88.3%;  Pred. No. 9.40e-133;
  Matches   265;  Conservative    0;  Mismatches  32;  Indels   3;  Gaps   3;

Db      7 TTTTTTTTTTTTTTTTTTTGAGACGGAGTCTGGCTCTGTCGCCCAGGCTGGAGTGCAGTG 66
          ||| |||||| |||||||||||| ||||||| |||||||||| ||||||||||||||||
Cp   5044 TTTATTTTTTCTTTTTTTTGAGATGGAGTCTCGCTCTGTCGCC-AGGCTGGAGTGCAGTG 4986

Db     67 GCGGGATCTCGGCTCACTGCAAGCTCCGCCTCCCGGGTTCACGCCATTCTCCTGCCTCAG 126
          ||| ||| |||||||| ||||| |||||||||| || ||| || ||||||||||||||||
Cp   4985 GCGTGATATCGGCTCAGTGCAACCTCCGCCTCCCAGGCTCAAGCGATTCTCCTGCCTCAG 4926

Db    127 CCTCCCAAGTAGCTGGGACTACAGGCGCCCGCCACTACGCCCAGCTAATTTTTTGTATTT 186
          |||||| |||||||||||||||| ||||||||| || ||||||||||||| ||||||
Cp   4925 CCTCCCGAGTAGCTGGGACTACAGGTGCCCGCCACCACACCCAGCTAATTTTT-GTATTT 4867
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Db    187 TTAGTAGAGACGGGGTTTCACCGTTTTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGA 246
          |||||||||| |||||||||||  | || |||| |||||||||  | ||| |||||||  |||
Cp   4866 TTAGTAGAGATGGGGTTTCACCATGTTGGCCATGATGGTCTCAAACTCTTGACCTCATGA 4807

Db    247 TCCGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCCGGCC 306
          ||| || |||| |||||||||||||||||| |||||||| |||| |||| || |||||||
Cp   4806 TCCACCTGCCTTGGCCTCCCAAAGTGCTGG-ATTACAGGTGTGAACCACTGCACCCGGCC 4748


RESULT    4
ID   PCT-US95-07201-43 STANDARD; DNA; UNC; 22481 BP.

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AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 43, Application PC/TUS9507201.
XX
CC   Sequence 43, Application PC/TUS9507201
CC    GENERAL INFORMATION:
CC      APPLICANT:  Chader, Gerald J.; Becerra, Sofia
CC      APPLICANT:  Patricia; Schwartz, Joan P.;
CC      APPLICANT:  Taniwaki, Takayuki
CC      TITLE OF INVENTION:  PIGMENT EPITHELIUM
CC      TITLE OF INVENTION:  DERIVED FACTOR: CHARACTERIZATION GENOMIC
CC      TITLE OF INVENTION:  ORGANIZATION AND SEQUENCE OF THE PEDF GENE
CC      NUMBER OF SEQUENCES:  43
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Morgan & Finnegan, L.L.P.
CC        STREET:  345 Park Avenue
CC        CITY:  New York
CC        STATE:  New York
CC        COUNTRY:  USA
CC        ZIP:  10154
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy Disk
CC        COMPUTER:  IBM PC Compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  WORDPERFECT 5.1
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US95/07201
CC        FILING DATE:  06-JUN-1995
CC        CLASSIFICATION:
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  08/367,841
CC        FILING DATE:  30-DEC-1994
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  08/257,963
CC        FILING DATE:  07-JUN-1994
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  07/952,796
CC        FILING DATE:  24-SEP-1992
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  DOROTHY R. AUTH
CC        REGISTRATION NUMBER:  36434
CC        REFERENCE/DOCKET NUMBER:  20264126PCT
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (212) 758-4800
CC        TELEFAX:  (212) 751-6849
CC    INFORMATION FOR SEQ ID NO:  43:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  22481 Base Pairs
CC        TYPE:  Nucleic Acid
CC        STRANDEDNESS:  Double
CC        TOPOLOGY:  Unknown
CC      MOLECULE TYPE:  Genomic DNA
CC      FEATURE:
CC        NAME/KEY:  P1-147
CC        LOCATION:
CC        IDENTIFICATION METHOD:
CC        OTHER INFORMATION:  full length genomic
CC        OTHER INFORMATION:  sequence for PEDF plus flanking sequences.
SQ   Sequence 22481 BP; 5280 A; 5708 C; 6136 G; 5347 T; 10 other;

  Query Match             4.0%;  Score 215;  DB 14;  Length 22481;
  Best Local Similarity  86.2%;  Pred. No. 9.40e-133;
  Matches   274;  Conservative    0;  Mismatches  41;  Indels   3;  Gaps   3;

Db  12820 GGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGTGGAGGTGGGTGGA 12879
          ||||||| || |||| |||| |||||||||| ||||||||||||||   |||  ||||||
Qy   4748 GGCCGGGTGCAGTGGTTCACACCTGTAATCC-AGCACTTTGGGAGGCCAAGGCAGGTGGA 4806

Db  12880 TCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAA 12939
          ||| |||||||  ||| | |||||||||  |||| |||| ||||||||||| ||||||||||
Qy   4807 TCATGAGGTCAAGAGTTTGAGACCATCATGGCCAACATGGTGAAACCCCATCTCTACTAA 4866

Db  12940 AAATACAAAAAATTAGCTGGGTGTGGTGGGGGGCGCCTGTAGTCCCAGCTACTCGGGAGG 12999
          |||||||||||  |||||||||||||||||  |||| ||||||||||||||||||||||||||
Qy   4867 AAATACAAAAA-TTAGCTGGGTGTGGTGGCGGGCACCTGTAGTCCCAGCTACTCGGGAGG 4925

Db  13000 CTGAGGCAGGAGAATGGCGTGAACCCGGGAGGTGGAGGTTGCAGTGAGCTGAGCTCGCAC 13059
          ||||||||||||||| || ||| || |||||| |||||||||| ||||| ||  || | |
Qy   4926 CTGAGGCAGGAGAATCGCTTGAGCCTGGGAGGCGGAGGTTGCACTGAGCCGATATCACGC 4985

Db  13060 CACTGCACTCCAGCCTGGGCGACAGAGTGAGACTCCGTCTCAAAAAAAAAAAAAAAAAAA 13119
          ||||||||||||||||||  |||||||| |||||||| |||||||||||  |||||| |||
Qy   4986 CACTGCACTCCAGCCTGG-CGACAGAGCGAGACTCCATCTCAAAAAAAAGAAAAAATAAA 5044

Db  13120 AGAAAGAAAGAAAAACTG 13137
              |||| ||| ||||
Qy   5045 TAGTTGAAATAAAGACTG 5062


RESULT    5
ID   PCT-US95-07201-10 STANDARD; DNA; UNC; 7210 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 10, Application PC/TUS9507201.
XX
CC   Sequence 10, Application PC/TUS9507201
CC    GENERAL INFORMATION:
CC      APPLICANT:  Chader, Gerald J.; Becerra, Sofia
CC      APPLICANT:  Patricia; Schwartz, Joan P.;
CC      APPLICANT:  Taniwaki, Takayuki
CC      TITLE OF INVENTION:  PIGMENT EPITHELIUM
CC      TITLE OF INVENTION:  DERIVED FACTOR: CHARACTERIZATION GENOMIC
CC      TITLE OF INVENTION:  ORGANIZATION AND SEQUENCE OF THE PEDF GENE
CC      NUMBER OF SEQUENCES:  43
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Morgan & Finnegan, L.L.P.
CC        STREET:  345 Park Avenue
CC        CITY:  New York
CC        STATE:  New York
CC        COUNTRY:  USA
CC        ZIP:  10154
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy Disk
CC        COMPUTER:  IBM PC Compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  WORDPERFECT 5.1
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US95/07201
CC        FILING DATE:  06-JUN-1995
CC        CLASSIFICATION:
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  08/367,841
CC        FILING DATE:  30-DEC-1994
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  08/257,963
CC        FILING DATE:  07-JUN-1994
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CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  07/952,796
CC        FILING DATE:  24-SEP-1992
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  DOROTHY R. AUTH
CC        REGISTRATION NUMBER:  36434
CC        REFERENCE/DOCKET NUMBER:  20264126PCT
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (212) 758-4800
CC        TELEFAX:  (212) 751-6849
CC    INFORMATION FOR SEQ ID NO:  10:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  7210 Base Pairs
CC        TYPE:  Nucleic Acid
CC        STRANDEDNESS:  Double
CC        TOPOLOGY:  Unknown
CC      MOLECULE TYPE:  Genomic DNA
CC      ORIGINAL SOURCE:
CC        ORGANISM:  Human
CC      IMMEDIATE SOURCE:
CC        LIBRARY:  DASH II
CC      FEATURE:
CC        NAME/KEY:  JT6A
CC        LOCATION:
CC        IDENTIFICATION METHOD:
CC        OTHER INFORMATION:  7.0 kb Not 1-Not
CC        OTHER INFORMATION:  fragment; Derived from human placental
CC        OTHER INFORMATION:  genomic DNA; also referred to as JT106
SQ   Sequence 7210 BP; 1878 A; 1688 C; 2052 G; 1592 T; 0 other;

  Query Match             3.9%;  Score 210;  DB 14;  Length 7210;
  Best Local Similarity  87.9%;  Pred. No. 4.77e-129;
  Matches   261;  Conservative    0;  Mismatches  33;  Indels   3;  Gaps   3;

Db   1570 AGGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGTGG 1629
            |||||||| || |||| |||| |||||||||| |||||||||||||||| |||  |||||
Qy   4747 AGGCCGGGTGCAGTGGTTCACACCTGTAATCC-AGCACTTTGGGAGGCCAAGGCAGGTGG 4805

Db   1630 ATCATGAGGTCAGGAGTTCAAGACCAGCCTGGCCAAAATGGTGAAACCCCGTCTCTACTG 1689
            |||||||||||| |||||  |||||| | ||||||| |||||||||||| ||||||||
Qy   4806 ATCATGAGGTCAAGAGTTTGAGACCATCATGGCCAACATGGTGAAACCCCATCTCTACT- 4864

Db   1690 AAAAATACAAAAATTAGCTGGGTGCAGTGGCGGGCGCCTGTAGTCTCAGCTACTCAGGAG 1749
            |||||||||||||||||||||  ||||||||| ||||||||| ||||||||| ||||
Qy   4865 AAAAATACAAAAATTAGCTGGGTGTGGTGGCGGGCACCTGTAGTCCCAGCTACTCGGGAG 4924

Db   1750 GCTGAGGCAGGATAATTGCTTGACCCCAGGAGGCAGAGGTTGCAGTGAACCGAGATCACG 1809
            |||||||||||| ||| |||||| ||  |||||| |||||||| ||| |||| ||||||
Qy   4925 GCTGAGGCAGGAGAATCGCTTGAGCCTGGGAGGCGGAGGTTGCACTGAGCCGATATCACG 4984

Db   1810 CCACTGCACTCCAGCCTGGGCGACAGAGCAAGACTCTGCCTCAAAAAAAAGAATAAA 1866
            |||||||||||||||||| ||||||||| ||||||   |||||||||||||| |||
Qy   4985 CCACTGCACTCCAGCCTGG-CGACAGAGCGAGACTCCATCTCAAAAAAAAGAAAAAA 5040


RESULT    6
ID   US-07-906-871-15 STANDARD; DNA; UNC; 17327 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 15, Application US/07906871.
XX
CC   Sequence 15, Application US/07906871
CC   Patent No. 5340739
CC    GENERAL INFORMATION:
CC      APPLICANT:  Stevens, Richard L.
CC      APPLICANT:  Avraham, Shalom
CC      TITLE OF INVENTION:  HEMATOPOIETIC CELL SPECIFIC
CC      TITLE OF INVENTION:  TRANSCRIPTIONAL REGULATORY ELEMENTS OF SERGLYCIN AND USES
CC      TITLE OF INVENTION:  THEREOF
CC      NUMBER OF SEQUENCES:  18
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Sterne, Kessler, Goldstein & Fox
CC        STREET:  1225 Connecticut Avenue, N.W., Suite 300
CC        CITY:  Washington
CC        STATE:  DC
CC        COUNTRY:  USA
CC        ZIP:  20036
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/07/906,871
CC        FILING DATE:  19920103
CC        CLASSIFICATION:  435
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US/07/816,289
CC        FILING DATE:  03 JAN 1992
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US/07/635,544
CC        FILING DATE:  18-JAN-1991
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US89/03051
CC        FILING DATE:  13-JUL-1989
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US/07/224,035
CC        FILING DATE:  13-JUL-1988
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Cimbala, Michele A
CC        REGISTRATION NUMBER:  33,851
CC        REFERENCE/DOCKET NUMBER:  0627.2830004
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (202)833-7533
CC        TELEFAX:  (202)833-8716
CC    INFORMATION FOR SEQ ID NO:  15:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  17327 base pairs
CC        TYPE:  NUCLEIC ACID
CC        STRANDEDNESS:  both
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA
CC      FEATURE:
CC        NAME/KEY:  exon
CC        LOCATION:  621..753
CC      FEATURE:
CC        NAME/KEY:  intron
CC        LOCATION:  754..9596
CC      FEATURE:
CC        NAME/KEY:  exon
CC        LOCATION:  9597..9744
CC      FEATURE:
CC        NAME/KEY:  intron
CC        LOCATION:  9745..16396
CC      FEATURE:
CC        NAME/KEY:  exon
CC        LOCATION:  16397..17327
SQ   Sequence 17327 BP; 4936 A; 3607 C; 3739 G; 5045 T; 0 other;

  Query Match             3.9%;  Score 209;  DB 4;  Length 17327;
  Best Local Similarity  86.8%;  Pred. No. 2.63e-128;
  Matches   270;  Conservative    0;  Mismatches  37;  Indels   4;  Gaps   3;

Db   7517 TAAAAAGTACTTTCGGCCGGGTGTGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGA 7576
            ||| || || ||  |||||||||  |||| |||||||||||||| ||||||||||||
Qy   4734 TAAGAAATATTTGAGGCCGGGTGCAGTGGTTCACACCTGTAATCC-AGCACTTTGGGAGG 4792

Db   7577 CTGAGGCGGGTGGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAA 7636
            |  |||| |||||||||  |||||||| ||||| ||||||| | ||||||||||||||||
Qy   4793 CCAAGGCAGGTGGATCA--TGAGGTCAAGAGTTTGAGACCATCATGGCCAACATGGTGAA 4850

Db   7637 ACCCCATCCCTACTAAAAATACAAAAATTAGCTGGATATGATTGTGGGCACCTGTCATCC 7696
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          |||||||| |||||||||||||||||||||||||| | || | | ||||||||||  |||
Qy   4851 ACCCCATCTCTACTAAAAATACAAAAATTAGCTGGGTGTGGTGGCGGGCACCTGTAGTCC 4910

Db   7697 CAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAGGCAGAGGTTGCAGT 7756
          |||||||||||||||||||||||||||||||||||| |||||||||| |||||||| |
Qy   4911 CAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAGCCTGGGAGGCGGAGGTTGCACT 4970

Db   7757 GAGCCGAGATTGTGCCACTGCATCCCAGCCAGGGCAACAGAGCGAGACTTCATCTCAAAA 7816
          ||||||| ||   |||||||||  |||||| || | ||||||||||||| ||||||||||
Qy   4971 GAGCCGATATCACGCCACTGCACTCCAGCCTGG-CGACAGAGCGAGACTCCATCTCAAAA 5029

Db   7817 AAAAAAAAAAA 7827
          |||| ||||||
Qy   5030 AAAAGAAAAAA 5040


RESULT    7
ID   US-08-484-044-10 STANDARD; DNA; UNC; 11613 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 10, Application US/08484044.
XX
CC   Sequence 10, Application US/08484044
CC   Patent No. 5552282
CC    GENERAL INFORMATION:
CC      APPLICANT:  Caskey, C. T.
CC      APPLICANT:  Fu, Ying-Hui
CC      APPLICANT:  Friedman, David L.
CC      APPLICANT:  Pizzuti, Antonio
CC      APPLICANT:  Fenwick, Raymond G.
CC      TITLE OF INVENTION:  Diagnosis of Myotonic Muscular Dystrophy
CC      NUMBER OF SEQUENCES:  13
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Fulbright & Jaworski, L.L.P.
CC        STREET:  1301 McKinney, Suite 5100
CC        CITY:  Houston
CC        STATE:  Texas
CC        COUNTRY:  U.S.A.
CC        ZIP:  77010-3095
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/484,044
CC        FILING DATE:
CC        CLASSIFICATION:  435
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US 08/019,940
CC        FILING DATE:  19-FEB-1993
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Paul, Thomas D.
CC        REGISTRATION NUMBER:  32,714
CC        REFERENCE/DOCKET NUMBER:  D-5443
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  713/651-5325
CC        TELEFAX:  713/651-5246
CC        TELEX:  762829
CC     INFORMATION FOR SEQ ID NO:  10:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  11613 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  double
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 11613 BP; 2284 A; 3317 C; 3604 G; 2408 T; 0 other;

  Query Match             3.8%;  Score 205;  DB 6;  Length 11613;
  Best Local Similarity  86.6%;  Pred. No. 2.40e-125;
  Matches   272;  Conservative    0;  Mismatches  37;  Indels   5;  Gaps   4;

Db   6361 AAGTATTAATTTAGGCGGGCCGCGGTGGCTCACGCCTGTAATCCTAGCACTTTGGGAGGC 6420
          ||| | || || |||| ||  || |||| |||| |||||||||| ||||||||||||||
Qy   4735 AAGAAATATTTGAGGCCGGGTGCAGTGGTTCACACCTGTAATCC-AGCACTTTGGGAGGC 4793

Db   6421 CAAGGCAGGTGGATCATGAGGTCAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACC 6480
          |||||||||||||||||||||||| ||| | ||||||||| |||| |||| |||||||||
Qy   4794 CAAGGCAGGTGGATCATGAGGTCAAGAGTTTGAGACCATCATGGCCAACATGGTGAAACC 4853

Db   6481 CCGTCTCTACTAAAAATACAAAAAAATTAGCCGGGCATGGTGGCGGGCGCTTGCGGTCCC 6540
          || ||||||||||||||||||||  ||||| ||| ||||||||||| | ||  |||||
Qy   4854 CCATCTCTACTAAAAATACAAAAA--TTAGCTGGGTGTGGTGGCGGGCACCTGTAGTCCC 4911

Db   6541 AGCTACTTGGGAGGC-GAGGCAGGAGAATGGCATGAACCCGGGAGGCGGAGCTTGCAGTG 6599
          ||||||| ||||||| |||||||||||||| || ||| || |||||||||| ||||| ||
Qy   4912 AGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAGCCTGGGAGGCGGAGGTTGCACTG 4971

Db   6600 AGCCGAGATCATGCCACTGCACTCCAGCCTGGGCGACAGAGCAAGACTCCGTCTCAAAAA 6659
          |||||| |||| |||||||||||||||||||| |||||||| ||||||| |||||||||
Qy   4972 AGCCGATATCACGCCACTGCACTCCAGCCTGG-CGACAGAGCGAGACTCCATCTCAAAAA 5030

Db   6660 AAAAAAAAAAAAAA 6673
          ||| |||||| |||
Qy   5031 AAAGAAAAAATAAA 5044


RESULT    8
ID   US-08-133-629-8 STANDARD; DNA; UNC; 282 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 8, Application US/08133629.
XX
CC   Sequence 8, Application US/08133629
CC   Patent No. 5597694
CC    GENERAL INFORMATION:
CC      APPLICANT:  Munroe, David J.
CC      APPLICANT:  Housman, David E.
CC      TITLE OF INVENTION:  AMPLIFICATION OF NUCLEIC ACIDS
CC      NUMBER OF SEQUENCES:  8
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Wolf, Greenfield & Sacks, P.C.
CC        STREET:  600 Atlantic Avenue
CC        CITY:  Boston
CC        STATE:  Massachusetts
CC        COUNTRY:  United States of America
CC        ZIP:  02210
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/133,629
CC        FILING DATE:  07-OCT-1993
CC        CLASSIFICATION:  435
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Greer, Helen
CC        REGISTRATION NUMBER:  36,816
CC        REFERENCE/DOCKET NUMBER:  M0828/7001
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  617-720-3500
CC        TELEFAX:  617-720-2441
CC        TELEX:  92-1742  EZEKIEL
CC     INFORMATION FOR SEQ ID NO:  8:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  282 base pairs
CC        TYPE:  nucleic acid
```

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CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
SQ   Sequence 282 BP; 63 A; 75 C; 90 G; 48 T; 6 other;

  Query Match            3.7%;  Score 200;  DB 6;  Length 282;
  Best Local Similarity  86.9%;  Pred. No. 1.19e-121;
  Matches   245;  Conservative    6;  Mismatches  27;  Indels   4;  Gaps   3;

Db      1 GGCTGGGCGTGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGA 60
          ||| ||| |  |||| ||||||||||||||| |||||||||||||||| |||  ||||||
Qy   4748 GGCCGGGTGCAGTGGTTCACACCTGTAATCC-AGCACTTTGGGAGGCCAAGGCAGGTGGA 4806

Db     61 TCACCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACT 120
          |||  ||||||||  |||||  |||||| | ||||||||||||||||||||| ||||||||
Qy   4807 TCA--TGAGGTCAAGAGTTTGAGACCATCATGGCCAACATGGTGAAACCCCATCTCTACT 4864

Db    121 AAAAATACAAAAATTAGCCGGGCGTGGTGGCGCGCGCCTGTAATCCCAGCTACTCGGGAG 180
          |||||||||||||||||| ||| ||||||||| || |||||| ||||||||||||||||
Qy   4865 AAAAATACAAAAATTAGCTGGGTGTGGTGGCGGGCACCTGTAGTCCCAGCTACTCGGGAG 4924

Db    181 GCTGAGGCAGGAGAATCGCTTGAACCCAGGAGGTGGAGGYTGCAGTGAGCCGWGATCGCG 240
          |||||||||||||||||||| ||  ||||| |||||:|||| ||||||| ||| ||
Qy   4925 GCTGAGGCAGGAGAATCGCTTGAGCCTGGGAGGCGGAGGTTGCACTGAGCCGATATCACG 4984

Db    241 CCACTGCACTCCAGCCTGGGCAACAGAGYRAGACTCYRTCTC 282
          |||||||||||||||||| | ||||||::||||||::||||
Qy   4985 CCACTGCACTCCAGCCTGG-CGACAGAGCGAGACTCCATCTC 5025


RESULT    9
ID   PCT-US96-10895-1 STANDARD; DNA; UNC; 1751 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 1, Application PC/TUS9610895.
XX
CC   Sequence 1, Application PC/TUS9610895
CC    GENERAL INFORMATION:
CC      APPLICANT:  Immunex Corporation.
CC      TITLE OF INVENTION:  Cytokine That Induces Apoptosis
CC      NUMBER OF SEQUENCES:  9
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Kathryn A. Anderson, Immunex Corporation
CC        STREET:  51 University Street
CC        CITY:  Seattle
CC        STATE:  WA
CC        COUNTRY:  USA
CC        ZIP:  98101
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  Apple Macintosh
CC        OPERATING SYSTEM:  Apple 7.5.2
CC        SOFTWARE:  Microsoft Word, Version 6.0.1
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US96/10895
CC        FILING DATE:  25-JUN-1996
CC        CLASSIFICATION:
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US 08/496,632
CC        FILING DATE:  29-JUN-1995
CC        CLASSIFICATION:
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US 08/548,368
CC        FILING DATE:  01-NOV-1995
CC        CLASSIFICATION:
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Anderson, Kathryn A.
CC        REGISTRATION NUMBER:  32,172
CC        REFERENCE/DOCKET NUMBER:  2835-WO
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (206) 587-0430
CC        TELEFAX:  (206) 233-0644
CC        TELEX:  756822
CC     INFORMATION FOR SEQ ID NO:  1:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  1751 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  cDNA to mRNA
CC      HYPOTHETICAL:  NO
CC      ANTI-SENSE:  NO
CC      IMMEDIATE SOURCE:
CC        CLONE:  huAIC
CC      FEATURE:
CC        NAME/KEY:  CDS
CC        LOCATION:  88..933
SQ   Sequence 1751 BP; 593 A; 361 C; 375 G; 422 T; 0 other;

  Query Match            3.7%;  Score 199;  DB 15;  Length 1751;
  Best Local Similarity  83.8%;  Pred. No. 6.55e-121;
  Matches   253;  Conservative    0;  Mismatches  48;  Indels   1;  Gaps   1;

Db   1402 GCCTGGTGCAGTGGCTCACACCTGTAATCCCAACATTTTGGGAACCCAAGGTGGGTAGAT 1461
          ||| |||||||||| |||||||||||||||| | || |||||||  ||||||  ||| |||
Qy   4749 GCCGGGTGCAGTGGTTCACACCTGTAATCC-AGCACTTTGGGAGGCCAAGGCAGGTGGAT 4807

Db   1462 CACGAGATCAAGAGATCAAGACCATAGTGACCAACATAGTGAAACCCCATCTCTACTGAA 1521
          || ||| ||||||| |  |||||||  || ||||||| |||||||||||||||||||| ||
Qy   4808 CATGAGGTCAAGAGTTTGAGACCATCATGGCCAACATGGTGAAACCCCATCTCTACTAAA 4867

Db   1522 AGTGCAAAAATTAGCTGGGTGTGTTGGCACATGCCTGTAGTCCCAGCTACTTGAGAGGCT 1581
          | | |||||||||||||||||| ||||     |||||||||||||||||| | ||||||
Qy   4868 AATACAAAAATTAGCTGGGTGTGGTGGCGGGCACCTGTAGTCCCAGCTACTCGGGAGGCT 4927

Db   1582 GAGGCAGGAGAATCGTTTGAACCCGGGAGGCAGAGGTTGCAGTGTGGTGAGATCATGCCA 1641
          |||||||||||||| |||| || ||||||| |||||||| || |  || |||| ||||
Qy   4928 GAGGCAGGAGAATCGCTTGAGCCTGGGAGGCGGAGGTTGCACTGAGCCGATATCACGCCA 4987

Db   1642 CTACACTCCAGCCTGGCGACAGAGCGAGACTTGGTTTCAAAAAAAAAAAAAAAAAAAAAC 1701
          || |||||||||||||||||||||||||||    | |||||||||| |||||| ||| |
Qy   4988 CTGCACTCCAGCCTGGCGACAGAGCGAGACTCCATCTCAAAAAAAAGAAAAAATAAATAG 5047

Db   1702 TT 1703
          ||
Qy   5048 TT 5049


RESULT   10
ID   PCT-US93-06251-83 STANDARD; DNA; UNC; 4517 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 83, Application PC/TUS9306251.
XX
CC   Sequence 83, Application PC/TUS9306251
CC    GENERAL INFORMATION:
CC      APPLICANT:  Wickstrom, Eric and Rife, Jason P.
CC      TITLE OF INVENTION:  Trivalent Synthesis of Oligonucleotides Containing
CC      TITLE OF INVENTION:  Stereospecific Alkylphosphonates and Arylphosphonates
CC      NUMBER OF SEQUENCES:  93
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  SCULLY, SCOTT, MURPHY & PRESSER
CC        STREET:  400 Garden City Plaza
CC        CITY:  Garden City
CC        STATE:  NY
CC        COUNTRY:  USA
CC        ZIP:  11530
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
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CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US93/06251
CC        FILING DATE:  19930630
CC        CLASSIFICATION:
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  DiGiglio, Frank S.
CC        REGISTRATION NUMBER:  31,346
CC        REFERENCE/DOCKET NUMBER:  8586
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  516-742-4343
CC        TELEFAX:  516-742-4366
CC        TELEX:  230 901 SANS.UR
CC    INFORMATION FOR SEQ ID NO:  83:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  4517 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  double
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   Sequence 4517 BP; 1437 A; 784 C; 955 G; 1341 T; 0 other;

  Query Match             3.7%;  Score 202;  DB 12;  Length 4517;
  Best Local Similarity  86.0%;  Pred. No. 3.97e-123;
  Matches   259;  Conservative    0;  Mismatches  39;  Indels   3;  Gaps   3;

Db    3156 TTTTTTTGTTTTCTTTTTTGAGACGGAGTCTCGCTCTGCCGCCCAGGCTGGAGTGCAGTG 3215
           ||| ||| || | |||||||||| |||||||||||||| |||| ||||||||||||||||
Cp    5044 TTTATTTTTTCTTTTTTTTGAGATGGAGTCTCGCTCTGTCGCC-AGGCTGGAGTGCAGTG 4986

Db    3216 GCGCGATCTCGGCTCACTGCAAGCTCTGCCTCCCAGGTTCACACCATTCTCCTGCCTCAG 3275
           ||| ||| |||||||| ||||| ||| |||||||||| |||  | ||||||||||||||||
Cp    4985 GCGTGATATCGGCTCAGTGCAACCTCCGCCTCCCAGGCTCAAGCGATTCTCCTGCCTCAG 4926

Db    3276 CCTCCCGAGTAGCTGGGACTACAGGTGCCCACCACCACGCCTGGCTAGTTTTTTGTATTT 3335
           |||||||||||||||||||||||||||||| ||||||| ||  |||| ||||| ||||||
Cp    4925 CCTCCCGAGTAGCTGGGACTACAGGTGCCCGCCACCACACCCAGCTAATTTTT-GTATTT 4867

Db    3336 TTAGTAGAGACGCAGTTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTTGTGA 3395
           |||||||||| |  |||||||| |||| |||| ||||||||| | ||| ||||||  |||
Cp    4866 TTAGTAGAGATGGGGTTTCACCATGTTGGCCATGATGGTCTCAAACTCTTGACCTCATGA 4807

Db    3396 TCTGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCGCGCCCAGCC 3455
           ||  || |||| |||||||||||||||||| |||||||||||| |||| || ||| |||
Cp    4806 TCCACCTGCCTTGGCCTCCCAAAGTGCTGG-ATTACAGGTGTGAACCACTGCACCCGGCC 4748

Db    3456 T 3456
           |
Cp    4747 T 4747


RESULT   11
ID   US-08-195-744-4 STANDARD; DNA; UNC; 6063 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 4, Application US/08195744.
XX
CC   Sequence 4, Application US/08195744
CC   Patent No. 5639607
CC    GENERAL INFORMATION:
CC      APPLICANT:  DESNICK, R.
CC      APPLICANT:  WETMUR, J.
CC      TITLE OF INVENTION:  METHODS FOR DETERMINING SUSCEPTIBILITY
CC      TITLE OF INVENTION:  TO LEAD POISONING
CC      NUMBER OF SEQUENCES:  6
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  BRUMBAUGH, GRAVES, DONOHUE AND RAYMOND
CC        STREET:  30 ROCKEFELLER PLAZA
CC        CITY:  NEW YORK
CC        STATE:  NEW YORK
CC        COUNTRY:  USA
CC        ZIP:  10112
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  DISKETTE, 3.5 INCH 720 Kb  STORAGE
CC        COMPUTER:  COMPAQ 286e
CC        OPERATING SYSTEM:  DOS
CC        SOFTWARE:  WORDPERFECT 5.1
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/195,744
CC        FILING DATE:
CC        CLASSIFICATION:  435
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  us/07/742,130
CC        FILING DATE:
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  CLARK, R., LEHNHARDT, S., DELSIGNORE, M.
CC        REGISTRATION NUMBER:  26,154, 33,943, 32,689
CC        REFERENCE/DOCKET NUMBER:  28490
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (212) 408-2500
CC        TELEFAX:  (212) 765-2519
CC        TELEX:  238555
CC    INFORMATION FOR SEQ ID NO:  4:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  6063
CC        TYPE:  NUCLEIC ACID
CC        STRANDEDNESS:  DOUBLE
CC        TOPOLOGY:  LINEAR
CC      MOLECULE TYPE:  GENOMIC DNA
CC      HYPOTHETICAL:  YES
CC      ANTI-SENSE:  NO
CC      FEATURE:  GENE PRODUCT IS k-AMINO LEVULINATE DEHYDRATASE
CC      PUBLICATION INFORMATION:  NONE
SQ   Sequence 6063 BP; 1485 A; 1626 C; 1638 G; 1314 T; 0 other;

  Query Match             3.7%;  Score 199;  DB 7;  Length 6063;
  Best Local Similarity  85.9%;  Pred. No. 6.55e-121;
  Matches   262;  Conservative    0;  Mismatches  39;  Indels   4;  Gaps   3;

Db    1039 TTGAGGCTGGGCACGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCAGG 1098
           ||||||| |||  | |||| |||| |||||||||| ||||||||||||||  |||||||
Qy    4744 TTGAGGCCGGGTGCAGTGGTTCACACCTGTAATCC-AGCACTTTGGGAGGCCAAGGCAGG 4802

Db    1099 CGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAATATGGTGAAACCCTGTCTCTA 1158
           |||||| ||||||| ||| | |||||||||| |||| || ||||||||||||  ||||||
Qy    4803 TGGATCATGAGGTCAAGAGTTTGAGACCATCATGGCCAACATGGTGAAACCCCATCTCTA 4862

Db    1159 CTAAAAACACAAAGAAATTAGCCAGGCGTGGTGGCGGGTGCCTGTAGTCCCAGCTACTTG 1218
           ||||||| |||||  |||||||  || ||||||||||  |||||||||||||||||| |
Qy    4863 CTAAAAATACAAA--AATTAGCTGGGTGTGGTGGCGGGCACCTGTAGTCCCAGCTACTCG 4920

Db    1219 GGAGGCTGAGGCAGGAGAATGGCGTGAACCCGGGAGGCGGAGCTTGCAGTGAGCCGAGAT 1278
           |||||||||||||||||||| || ||| || |||||||||||  ||||| |||||||| ||
Qy    4921 GGAGGCTGAGGCAGGAGAATCGCTTGAGCCTGGGAGGCGGAGGTTGCACTGAGCCGATAT 4980

Db    1279 TGCACCACTTCACTCCAGCCTGGGCGACAGAGCCAGACTCCATCTCAAAAAAAAAAAAAA 1338
             | ||||| |||||||||||||| ||||||||| |||||||||||||||||||| |||||
Qy    4981 CACGCCACTGCACTCCAGCCTGG-CGACAGAGCGAGACTCCATCTCAAAAAAAAGAAAAA 5039

Db    1339 AAAAA 1343
           | |||
Qy    5040 ATAAA 5044


RESULT   12
ID   PCT-US94-07926-33 STANDARD; DNA; UNC; 15328 BP.

XX
AC   xxxxxx
XX
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DT   01-JAN-1900
XX
DE   Sequence 33, Application PC/TUS9407926.
XX
CC   Sequence 33, Application PC/TUS9407926
CC    GENERAL INFORMATION:
CC      APPLICANT:  Tischfield, Jay A.
CC      APPLICANT:  Seilhamer, Jeffrey J.
CC      TITLE OF INVENTION:  Mammalian Phospholipase A2 Nucleotide
CC      TITLE OF INVENTION:  Sequences and Low Molecular Weight Amino Acid Sequences
CC      TITLE OF INVENTION:  Encoded Thereby, Antisense Sequences and Nucleotide
CC      TITLE OF INVENTION:  Sequences Having Internal Ribosome Binding Sites
CC      NUMBER OF SEQUENCES:  44
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Ruden, Barnett, McClosky, Smith, Schuster &
CC        ADDRESSEE:  Russell PA
CC        STREET:  200 East Broward Boulevard
CC        CITY:  Fort Lauderdale
CC        STATE:  FL
CC        COUNTRY:  USA
CC        ZIP:  33301
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US94/07926
CC        FILING DATE:  15-JUL-1994
CC        CLASSIFICATION:
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US 08/097,354
CC        FILING DATE:  26-JUL-1993
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Manso, Peter J.
CC        REGISTRATION NUMBER:  32,264
CC        REFERENCE/DOCKET NUMBER:  IN21044-5
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  305-527-2498
CC        TELEFAX:  305-764-4996
CC     INFORMATION FOR SEQ ID NO:  33:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  15328 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  cDNA
SQ   Sequence 15328 BP; 3885 A; 3789 C; 4082 G; 3572 T; 0 other;

  Query Match             3.7%;  Score 199;  DB 13;  Length 15328;
  Best Local Similarity  86.1%;  Pred. No. 6.55e-121;
  Matches   267;  Conservative    0;  Mismatches  38;  Indels   5;  Gaps   3;

Db   5696 GGCCGGGCGCGGTGGCTCACGCTTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGA 5755
           ||||||| || |||| |||| | |||||||| |||||||||||||||| |||| || |||
Qy   4748 GGCCGGGTGCAGTGGTTCACACCTGTAATCC-AGCACTTTGGGAGGCCAAGGCAGGTGGA 4806

Db   5756 TCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAA 5815
           ||| ||||||| ||| | ||||||||| |||| |||| |||||||||| ||||||||||
Qy   4807 TCATGAGGTCAAGAGTTTGAGACCATCATGGCCAACATGGTGAAACCCCATCTCTACTAA 4866

Db   5816 AAATACAAAAAAAATTAGCCGGGCGTGATGGTGGGCGCCTGTAGTCCCAGCTACTCGGGA 5875
           |||||||||||    ||||| ||| ||| ||| |||| ||||||||||||||||||||||
Qy   4867 AAATACAAAAA---TTAGCTGGGTGTGGTGGCGGGCACCTGTAGTCCCAGCTACTCGGGA 4923

Db   5876 GGCTGAGGCAGGAGAATGGCGTGAACCCGGGAGGCGGAGCTTGCAGTGAGCCGAGATTGC 5935
           |||||||||||||||| || ||| || |||||||||| ||||| |||||||| ||  |
Qy   4924 GGCTGAGGCAGGAGAATCGCTTGAGCCTGGGAGGCGGAGGTTGCACTGAGCCGATATCAC 4983

Db   5936 GCCACTGCACTCCCGCCTGGGCCACAGAGCGAGACTCCGTCTCAAAAAAAAAAAAAAAAA 5995
           |||||||||||| |||||| | |||||||||||||| |||||||||| |||||| |
Qy   4984 GCCACTGCACTCCAGCCTGG-CGACAGAGCGAGACTCCATCTCAAAAAAAAGAAAAAATA 5042

Db   5996 AAAAGAAGAA 6005
           || ||  |||
Qy   5043 AATAGTTGAA 5052


RESULT   13
ID   PCT-US95-07201-43 STANDARD; DNA; UNC; 22481 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 43, Application PC/TUS9507201.
XX
CC   Sequence 43, Application PC/TUS9507201
CC    GENERAL INFORMATION:
CC      APPLICANT:  Chader, Gerald J.; Becerra, Sofia
CC      APPLICANT:  Patricia; Schwartz, Joan P.;
CC      APPLICANT:  Taniwaki, Takayuki
CC      TITLE OF INVENTION:  PIGMENT EPITHELIUM
CC      TITLE OF INVENTION:  DERIVED FACTOR: CHARACTERIZATION GENOMIC
CC      TITLE OF INVENTION:  ORGANIZATION AND SEQUENCE OF THE PEDF GENE
CC      NUMBER OF SEQUENCES:  43
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Morgan & Finnegan, L.L.P.
CC        STREET:  345 Park Avenue
CC        CITY:  New York
CC        STATE:  New York
CC        COUNTRY:  USA
CC        ZIP:  10154
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy Disk
CC        COMPUTER:  IBM PC Compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  WORDPERFECT 5.1
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US95/07201
CC        FILING DATE:  06-JUN-1995
CC        CLASSIFICATION:
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  08/367,841
CC        FILING DATE:  30-DEC-1994
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  08/257,963
CC        FILING DATE:  07-JUN-1994
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  07/952,796
CC        FILING DATE:  24-SEP-1992
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  DOROTHY R. AUTH
CC        REGISTRATION NUMBER:  36434
CC        REFERENCE/DOCKET NUMBER:  20264126PCT
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (212) 758-4800
CC        TELEFAX:  (212) 751-6849
CC     INFORMATION FOR SEQ ID NO:  43:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  22481 Base Pairs
CC        TYPE:  Nucleic Acid
CC        STRANDEDNESS:  Double
CC        TOPOLOGY:  Unknown
CC      MOLECULE TYPE:  Genomic DNA
CC      FEATURE:
CC        NAME/KEY:  Pl-147
CC        LOCATION:
CC        IDENTIFICATION METHOD:
CC        OTHER INFORMATION:  full length genomic
CC        OTHER INFORMATION:  sequence for PEDF plus flanking sequences.
SQ   Sequence 22481 BP; 5280 A; 5708 C; 6136 G; 5347 T; 10 other;

  Query Match             3.7%;  Score 202;  DB 14;  Length 22481;
  Best Local Similarity  87.2%;  Pred. No. 3.97e-123;
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  Matches   260;  Conservative    0;  Mismatches  34;  Indels   4;  Gaps   3;

Db    9513 TTTTTTTTTTTTTTTGAGATGGAGTCTTGCTCTGTTGCCCAGCCTGGAGTGCAGTGGCGC 9572
           |||||| ||||||||||||||||||||| ||||||| ||| || ||||||||||||||||
Cp    5040 TTTTTTCTTTTTTTTGAGATGGAGTCTCGCTCTGTCGCC-AGGCTGGAGTGCAGTGGCGT 4982

Db    9573 GATCTCAGCTCACTGCAACCTCCACTTCCTGGATTCAAGTGATTCTCCTGCCTTAGCCTC 9632
           ||| || ||||| |||||||||| | |||  |  ||||| |||||||||||||| ||||||
Cp    4981 GATATCGGCTCAGTGCAACCTCCGCCTCCCAGGCTCAAGCGATTCTCCTGCCTCAGCCTC 4922

Db    9633 CCAAGTAGCTGGGATTACAGGCATGCGCCACCACACCCGGCTAATTTTTGTATTTTTAGT 9692
           || |||||||||| ||||||    |||||||||||| ||||||||||||||||||||
Cp    4921 CCGAGTAGCTGGGACTACAGGTGCCCGCCACCACACCCAGCTAATTTTTGTATTTTTAGT 4862

Db    9693 AGAGATGGGGTTTCTCCATGTTGGCCAGGATGGTCTCAAACTCCTGACCTCAGGTGATCT 9752
           |||||||||||||| |||||||||||| |||||||||||||| |||||||| |||||
Cp    4861 AGAGATGGGGTTTCACCATGTTGGCCATGATGGTCTCAAACTCTTGACCTCA--TGATCC 4804

Db    9753 ACCCGCCTCGGCCTCTCAAAGTGCTGGGATTACAGGTTTGAGCCACTGCGCCTGGCCT 9810
           ||| |||| |||||| |||||||||| ||||||||| ||| ||||||| || |||||
Cp    4803 ACCTGCCTTGGCCTCCCAAAGTGCTGG-ATTACAGGTGTGAACCACTGCACCCGGCCT 4747


RESULT   14
ID   US-08-323-443B-1 STANDARD; DNA; UNC; 31571 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 1, Application US/08323443B.
XX
CC   Sequence 1, Application US/08323443B
CC   Patent No. 5654170
CC    GENERAL INFORMATION:
CC      APPLICANT:  KLINGER, KATHERINE W.
CC      APPLICANT:  LANDES, GREGORY M.
CC      APPLICANT:  BURN, TIMOTHY C.
CC      APPLICANT:  CONNORS, TIMOTHY D.
CC      APPLICANT:  DACKOWSKI, WILLIAM R.
CC      APPLICANT:  GERMINO, GREGORY
CC      APPLICANT:  QIAN, FENG
CC      TITLE OF INVENTION:  POLYCYSTIC KIDNEY DISEASE GENE
CC      NUMBER OF SEQUENCES:  8
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Darby & Darby PC
CC        STREET:  805 Third Avenue
CC        CITY:  New York
CC        STATE:  NY
CC        COUNTRY:  USA
CC        ZIP:  10022
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.30
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/323,443B
CC        FILING DATE:  12-OCT-1994
CC        CLASSIFICATION:  435
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Ludwig, S. Peter
CC        REGISTRATION NUMBER:  25,351
CC        REFERENCE/DOCKET NUMBER:  0372/0A462
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (212) 527-7700
CC        TELEFAX:  (212) 753-6237
CC     INFORMATION FOR SEQ ID NO:  1:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  31571 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
CC      HYPOTHETICAL:  NO
CC      ORIGINAL SOURCE:
CC        ORGANISM:  Homo sapiens
CC      IMMEDIATE SOURCE:
CC        CLONE:  PKD1 GENOMIC
SQ   Sequence 31571 BP; 5045 A; 9978 C; 9794 G; 6705 T; 49 other;

  Query Match           3.7%;  Score 200;  DB 7;  Length 31571;
  Best Local Similarity  86.7%;  Pred. No. 1.19e-121;
  Matches   254;  Conservative    0;  Mismatches  36;  Indels   3;  Gaps   3;

Db    9192 AGGGTGGGCGCGGTGGTTCACGCCTGTAATCTCAGCACTTTGGGAGGCCAAGGTGGGGGG 9251
           ||| ||| || ||||||||| ||||||||| ||||||||||||||||||||||  || ||
Qy    4747 AGGCCGGGTGCAGTGGTTCACACCTGTAATC-CAGCACTTTGGGAGGCCAAGGCAGGTGG 4805

Db    9252 ATCACAAGGTCAGGAGTTTGTGACCAGCCTGACCAACATGGTGAAACCCCGT-TCTACTA 9310
           ||||  |||||| ||||||| ||||| | || |||||||||||||||||| | |||||||
Qy    4806 ATCATGAGGTCAAGAGTTTGAGACCATCATGGCCAACATGGTGAAACCCCATCTCTACTA 4865

Db    9311 AAAATACAAAAATTAGCGAGGTGTGGTCGTGGGCGCCTGTAATCCCAGCTAATTAGGAGG 9370
           ||||||||||||||||  |||||||| | |||| |||||| ||||||||| |  |||||
Qy    4866 AAAATACAAAAATTAGCTGGGTGTGGTGGCGGGCACCTGTAGTCCCAGCTACTCGGGAGG 4925

Db    9371 CTGAGGCAGGAGAATCACTTGAACCCGGGAGGCGGAGGTTGCAGTGAGCCAATATCACAC 9430
           |||||||||||||||| ||||| || |||||||||||||||| |||||| ||||||| |
Qy    4926 CTGAGGCAGGAGAATCGCTTGAGCCTGGGAGGCGGAGGTTGCACTGAGCCGATATCACGC 4985

Db    9431 CACTGCACTCTAGCCTGGTCAACAGAGCGAGACTCTGTCTCAAAAAAAAAAAA 9483
           |||||||||| ||||||| | |||||||||||||  |||||||||||| |||
Qy    4986 CACTGCACTCCAGCCTGG-CGACAGAGCGAGACTCCATCTCAAAAAAAAGAAA 5037


RESULT   15
ID   US-08-157-171-3 STANDARD; DNA; UNC; 1856 BP.

XX
AC   xxxxxx
XX
DT   01-JAN-1900
XX
DE   Sequence 3, Application US/08157171.
XX
CC   Sequence 3, Application US/08157171
CC   Patent No. 5736323
CC    GENERAL INFORMATION:
CC      APPLICANT:  Soubrier, Florent
CC      APPLICANT:  Hubert, Christine
CC      APPLICANT:  Corvol, Pierre
CC      TITLE OF INVENTION:  Agents and Procedures for the Study of
CC      TITLE OF INVENTION:  the Genetic Polymorphism of the Angiotensin I Converting
CC      TITLE OF INVENTION:  Enzyme
CC      NUMBER OF SEQUENCES:  8
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Merchant & Gould
CC        STREET:  90 South 7th Street, 3100 No. 5736323west Center
CC        CITY:  Minneapolis
CC        STATE:  MN
CC        COUNTRY:  USA
CC        ZIP:  55402
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/157,171
CC        FILING DATE:  24-JAN-1994
CC        CLASSIFICATION:  435
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Hillson, Randall A.
CC        REGISTRATION NUMBER:  31,838
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CC        REFERENCE/DOCKET NUMBER:  8076.103USWO
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  612-332-5300
CC        TELEFAX:  612-332-9081
CC    INFORMATION FOR SEQ ID NO:  3:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  1856 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
CC      IMMEDIATE SOURCE:
CC        CLONE:  Intron 16 of human angiotension converting
CC        CLONE:  enzyme (ACE) gene
SQ   Sequence 1856 BP; 403 A; 546 C; 483 G; 424 T; 0 other;

  Query Match             3.6%;  Score 192;  DB 8;  Length 1856;
  Best Local Similarity  87.9%;  Pred. No. 9.61e-116;
  Matches   246;  Conservative    0;  Mismatches  30;  Indels   4;  Gaps   4;

Db   1461 TTTTTTTTTTTTTTTGAGACGGAGTCTCGCTCTGTCGCCCAGGCTGGAGTGCAGTGGCGG 1520
           |||||| |||||||||||| |||||||||||||||||| ||||||||||||||||||
Cp   5040 TTTTTCTTTTTTTTGAGATGGAGTCTCGCTCTGTCGCC-AGGCTGGAGTGCAGTGGCGT 4982

Db   1521 GATCTCGGCTCACTGCAACGTCCGCCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTC 1580
           ||| |||||||| |||||| |||||||||| || ||| || ||||||||||||||||||
Cp   4981 GATATCGGCTCAGTGCAACCTCCGCCTCCCAGGCTCAAGCGATTCTCCTGCCTCAGCCTC 4922

Db   1581 CCAAGTAGCTGGGACCACAGC-GCCCGCCACTACGCCCGGCTAATTTTTTGTATTTTTAG 1639
           || |||||||||||| |||| ||||||||| || ||| |||||||||| ||||||||||
Cp   4921 CCGAGTAGCTGGGACTACAGGTGCCCGCCACCACACCCAGCTAATTTTT-GTATTTTTAG 4863

Db   1640 TAGAGACGGGGTTTCACCGTTTTAGCCGGGATGGTCTCGATCTCCTGACCTCGTGATCCG 1699
           |||||| |||||||||||  | || |||  ||||||||| | ||| ||||||| ||||||
Cp   4862 TAGAGATGGGGTTTCACCATGTTGGCCATGATGGTCTCAAACTCTTGACCTCATGATCCA 4803

Db   1700 CCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGA 1739
           || |||| |||||||||||||||| |||||||| ||||
Cp   4802 CCTGCCTTGGCCTCCCAAAGTGCTGG-ATTACAGGTGTGA 4764


Search completed: Thu May  7 00:12:48 1998
Job time : 304 secs.
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